Cancer Incidence and Mortality in New Jersey 1996 -2000

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INTRODUCTION

This report presents statewide, age-adjusted incidence rates for all cancers diagnosed among New Jersey residents during the period 1996-2000, mortality rates for the period 1996-1999 and comparisons of state and national rates for 1995-1999. The incidence data for 2000 should be considered preliminary.

The primary goal of this report is to provide 1996-2000 data to health planners, researchers and the public. Data are provided statewide for six population subgroups: white males, white females, black males, black females, Hispanic males and Hispanic females. Rates are also provided by gender for all races combined. Due to the growing Hispanic population and interest in their cancer rates, we are including Hispanic cancer data in our annual incidence and mortality reports, for the first time.

In viewing the tables of this report, it should also be noted that the annual rates for relatively uncommon cancers tend to fluctuate substantially from year to year because of small numbers of cases, particularly in minority populations. It should also be noted that minor fluctuations might be seen from previous incidence reports due to ongoing editing and review of the data. Compared to preliminary data for 1999 published in our last report, 1999 incidence rates for total cancer in this report increased by 4.1% for males and 2.3% for females. Similarly, the 2000 incidence rates presented here are expected to increase by the time all data are complete.

For each year, the age-adjusted incidence and mortality rates per 100,000 population are shown for 63 categories of cancer sites and for all sites combined. For females, breast cancer *in situ* statistics are shown but not included in the totals for all sites combined (as is standard practice for publication of cancer rates in the United States). For males and females, bladder cancer *in situ* statistics are included in urinary bladder, urinary system and all sites, in accordance with standard practice.

CHANGES IN POPULATION STANDARD AND DENOMINATORS FOR 2000

Age-adjusted rates and the Year 2000 Standard

The U.S. Department of Health and Human Services requires that, beginning with 1999 reporting year, health data should be age-adjusted using the U.S. Year 2000 population as a standard. Until now, various federal and state agencies have calculated disease rates using different U.S. population standards, including the 1940 and 1970 populations. Our prior incidence report on 1995-1999 data, issued in September 2001, used the former 1970 Population Standard for all five years and also illustrated the effect on 1999 incidence rates by changing the population standard from 1970 to 2000.

Today, people are tending to live longer than in the past and the average age of the U.S. population is greater than it was thirty years ago. Consequently, since cancer occurs more frequently in older people, today's U.S. populations will tend to have more cases of cancer than in the past. Calculation of disease rates based on the 2000 population structure provides a more realistic and consistent standard of measurement.

The age-adjusted rate is calculated by applying a series of weights to the age-specific rates. The weights are the respective proportions of the standard population in each age group. The new 2000 population standard reflects the age distribution of the current U.S. population and therefore has higher weights in older age groups. For example, the 2000 standard population has higher weights than the 1970 standard population for all groups age 70 and over. A more complete discussion of this topic is available in our last incidence report, *Cancer Incidence in New Jersey*, 1995-1999 and can be found through our web site at http://www.state.nj.us/health/cancer/statistics.htm.

The new calculation using the 2000 standard population does not indicate a change in cancer incidence or occurrence—only a different representation of the rates of reported diseases. The new calculations produce standardized cancer rates that appear to be about 20% higher than previously reported.

Population Denominators for 2000

With the introduction of year 2000 incidence data, one must take into account the new way in which the U.S. Bureau of the Census collected population data. With the 2000 Census, individuals were given the opportunity to categorize themselves as more than one race. For the first time, individuals could "mark [X] one or more races to indicate what this person considers himself/herself to be". Because of this change, 2000 populations for "White only" and "Black only" became 4-6% lower than 1999 populations in New Jersey. The lower population denominator produces in turn, higher age-adjusted rates among whites and blacks for the year 2000. Therefore, caution must be taken in interpreting 2000 incidence rates since it is not clear if an apparent rate change is actual or an artifact of the new way in which the U.S. Bureau of the Census collected race data for 2000.

Furthermore, population estimates used to calculate rates, especially race-specific rates, have recently been found to differ from the 2000 census counts. The National Center for Health Statistics and the National Cancer Institute are studying this issue. Revised population data may be issued in the future that would change rate calculations. The rates presented in this report are produced following all current national guidelines.

SUMMARY OF NEW JERSEY CANCER INCIDENCE DATA, 1996-2000

(Standardized to U.S. 2000 Population)

A total of 44,562 cases of invasive cancer diagnosed in 2000 among New Jersey residents were reported to the NJSCR. During the period 1996-2000, a total of 221,868 cases of invasive cancer were diagnosed among New Jersey residents, 51% among males and 49% among females.

During 1996-2000, overall age-adjusted cancer incidence rates have declined for males since 1997 and for females since 1998. This is also reflected nationally where cancer incidence stabilized for the years 1995-1999. The overall incidence rates decreased steadily for black males who for many years have had the highest rates.

Lung cancer incidence rates for males dropped markedly in 1999 and 2000. Female lung cancer incidence rates appear stable over the period, declining somewhat in 2000. Incidence rates for colon cancer have been fairly stable for both males and females, although rates declined since 1998. A gradual decline in stomach cancer incidence rates is seen for males and females.

Prostate cancer rates have been fluctuating, possibly reflecting a variable use of PSA screening. Invasive breast cancer incidence rates for females have declined slightly since 1997, consistent with continued improvements in screening and early detection, while *in situ* breast cancer rates are still on the rise. Cervical cancer incidence rates decreased steadily.

Thyroid cancer incidence rates have increased for both males and females. We have included a special set of tables on thyroid cancer to highlight this observation. New Jersey thyroid cancer rates are lower than those of the nation but appear to be rising faster than the comparable rates in the U.S. Malignant melanoma and non-Hodgkin lymphoma incidence rates appear to be stabilizing in the most recent years among both males and females. These cancer types had previously been rising rapidly in New Jersey and the nation.

New Jersey Cancer Incidence Rates by Gender, Race and Ethnicity, 1996-2000

Tables 1 through 8 display the total counts of all newly diagnosed cases of cancer in New Jersey and the age-adjusted incidence rates by gender and race and for Hispanic ethnicity for the period 1996 through 2000. Each year of data is presented separately except for Hispanics where the data are grouped for the 5 years.

In the paragraphs below, we note the most striking patterns indicated in these tables according to gender and the largest race subgroups, also taking into account fluctuations and trends in incidence data for years prior to 1996. Year 2000 data may show apparent interruptions of race-specific trends due to the way in which the Census collected race specific populations (see discussion under the previous section, *Population Denominators for 2000*). The option for choosing multiple races produced artificially inflated 2000 age-adjusted rates among whites and blacks for this report.

Incidence data for earlier years can be viewed on the NJDHSS website, http://www.state.nj.us/health/ and can also be found in our previous cancer incidence reports.

<u>Males (Tables 1, 3 & 5):</u> During the years 1996-2000, the overall cancer incidence rate declined for all males. Taking into account that the age-adjusted rates for race subgroups for 2000 may be inflated by the new Census practice, overall cancer incidence rates for white males also declined and has continued to decline steadily for black males during these years. Although lung cancer incidence rates appear stable among all males, white males, and black males through 1997, the rates dropped markedly in the past two years. Prostate cancer incidence rates seem stable overall but fluctuate for whites and blacks males alone. Incidence rates for colon cancer have been stable overall but are slightly decreasing for white males.

Thyroid cancer incidence rates have increased for males, a trend similar to that seen for the U.S. (See Table 8). Incidence rates for cancer of the small intestine, which was previously increasing slightly, appears to be leveling off. Incidence rates for laryngeal cancer continue to decrease slightly. A slight decline in oropharyngeal cancer incidence is seen among white males. Incidence rates for non-Hodgkin lymphoma and malignant melanoma of the skin appear to be stabilizing for males.

Females (Tables 2, 4 & 6): During the period 1996-2000, the overall cancer incidence rate for females peaked in 1998 and is now decreasing. Taking into account that the age-adjusted rates for race subgroups for 2000 may be inflated by the new Census practice, overall cancer incidence rates for white and black females seem to be following this same pattern. Incidence rates of lung cancer are stable for white women and show a slight drop in 2000 for black women. Colorectal cancer incidence rates have declined since 1998 for all females. Invasive breast cancer incidence rates declined slightly since 1997 while *in situ* breast cancer rates rose during these years. Declines continued to be seen for invasive cervical cancer among all females.

Thyroid cancer incidence rates for females have steadily increased over the past few years. New Jersey thyroid cancer incidence rates are slightly lower than those for the U.S. (See Table 9). Thyroid cancer rates for females are increasing at a faster rate than for males. Incidence rates for non-Hodgkin lymphoma and malignant melanoma of the skin appear to be stabilizing.

Among black females, the incidence rates for total cancer and other major cancer sites show a decreasing pattern since 1998 but increasing rates are seen for pancreatic cancer during these years.

<u>Hispanic</u>, <u>Males & Females (Table 7):</u> The overall cancer incidence rates for Hispanic males and females for the cumulative years 1996-2000 are lower than for all males and females combined during this same time period. Rates by individual years could not be presented due to small numbers. Hispanic males continue to have higher incidence rates compared with Hispanic females, consistent with differences in cancer rates between genders in the overall population.

As originally noted in our report, *Cancer Among Hispanics in New Jersey, 1990-1996*, Hispanics continue to have higher incidence rates for cervical, stomach, gallbladder and liver cancers compared with the general population. For more details, you may view that report on our web site at http://www.state.nj.us/health/cancer/hispanic/.

Comparison of Cancer Incidence Data for New Jersey with the United States, 1995-1999

Tables 10 and 11 compare New Jersey age-adjusted incidence rates to those of the U.S. using data published in *Cancer in North America* by the North American Association of Central Cancer Registries (NAACCR). The most recent detailed data available from NAACCR are for 1995-1999 and we present comparison tables for major sites for this time period. These tables show the comparable incidence rates for total cancer and for three of the most common sites of cancer for males and females, as well as the comparable rates for two types of cancer that have been increasing nationally during the past decade, melanoma and non-Hodgkin lymphoma. Historically, New Jersey rates have been representative of the Northeast region, which tends to have higher cancer incidence rates than the U.S. as a whole.

For males (Table 10) all races combined, total cancer incidence rates were higher for New Jersey than the U.S. during the period 1995-1999. The incidence rates for colorectal and prostate cancers and non-Hodgkin lymphoma were higher than those for the total U.S. Lung cancer incidence rates for New Jersey were higher for all races and whites but lower among blacks compared to the nation. Melanoma incidence rates for New Jersey were higher than the U.S. for all race and whites but similar among blacks.

For females (Table 11), New Jersey had higher incidence rates than the U.S. during the period 1995-1999 for total cancers, lung, breast and colorectal cancers and non-Hodgkin lymphoma. Melanoma incidence rates for New Jersey females and the U.S. were similar.

SUMMARY OF NEW JERSEY CANCER MORTALITY DATA, 1996-1999

(Standardized to U.S. 2000 Population)

Beginning with the year 1999, coding and classification for cause of death comes from a new manual, the tenth revision of the World Health Organization's International Classification of Disease (ICD-10). From 1979-1998, cause of death coding was based on the ninth revision (ICD-9). Changes in classification detail, coding rules, and classification code numbers with this new version have caused some discontinuities in trends for cancer deaths. Although these discontinuities vary, research has found that using ICD-10 assigns approximately 0.7% more deaths to the category of cancer, which may slightly increase resulting site-specific mortality rates for 1999 and later.

The New Jersey cancer mortality data through 1999 reflect many trends observed throughout the nation. Cancer mortality rates of the U.S. have been on the decline since 1991 and the decline has been more rapid since 1995. This decline is more apparent among New Jersey men than women. Research suggests that advances in treatment and increased screening have helped reduce mortality from cancer. Declines in smoking rates are also believed to have contributed to the decreases, especially in males. New Jersey cancer mortality data for this report were obtained through the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER)

Program from the National Center for Health Statistics. At the time of this report year 2000 mortality data were unavailable.

New Jersey Cancer Mortality Rates by Gender, Race & Ethnicity, 1996-1999

There were 18,177 deaths in 1999 for which cancer was designated on the death certificates as the underlying cause. During the period 1996-1999, 72,683 deaths from cancer occurred among New Jersey residents, 50% among males and 50% among females. Tables 12-17 display the total counts of deaths from cancer in New Jersey and age-adjusted mortality rates by race and gender for the period 1996 through 1999. Table 18 displays age-adjusted mortality rates and counts by gender for those of Hispanic ethnicity in New Jersey for the combined years 1996-1999.

In the paragraphs below, we note the most striking patterns indicated in Tables 12 through 18 according to gender and population subgroups. Mortality trends are also compared to the incidence data in Tables 1 through 6 described previously.

Males (Tables 12, 14 & 16): During the years 1996-1999, the overall cancer mortality rate for males decreased (Table 12), paralleling the slight decreasing trend in incidence rates over the past few years. In particular, downward trends in cancer mortality rates were seen for male lung and melanoma of the skin. Decreases in prostate cancer mortality rates continued as incidence remained steady. A slight decline in oropharyngeal cancer mortality rates is also seen. Except for a slight rise in 1999, colorectal cancer mortality rates for males have been decreasing slowly along with incidence rates.

For white males (Table 14), the trends for the most common cancers were similar to those for all males combined. Although cancer mortality rates for black males (Table 16) have been significantly higher than for white males, they continue to show an overall downward trend. Mortality rates for colorectal and stomach cancers among black males have decreased markedly.

<u>Females (Tables 13, 15 & 17):</u> During the years 1996-1999, the overall cancer mortality rate for females showed a downward trend (Table 13). The decreasing breast cancer mortality rates are consistent with the trend toward earlier diagnoses for breast cancers. Similar to incidence rates, the increasing female mortality rates for lung cancer may have peaked in 1997 and now appear to be

decreasing. There was a downward trend in oropharyngeal cancer mortality. For female colorectal, uterine corpus and cervical cancers, mortality rates showed no clear trend while

ovarian cancer mortality was stable over this time period. Non-Hodgkin lymphoma mortality rates seem to be stabilizing in females, similar to incidence rates.

For white females (Table 15), the cancer mortality trends for most common cancers were similar to those for all females combined. For black females (Table 17), overall cancer mortality rates were only slightly higher than those for white females and not as high as for black males. Mortality rates for breast cancer for black females remain higher than for white females, but showed a strong downward trend during the 4-year period. Since 1998 mortality rates have been decreasing for colorectal, esophageal and uterine cancers among black females. Pancreatic cancer mortality rates show an increasing trend for black females, following the pattern with incidence.

<u>Hispanic Males & Females (Table 18):</u> Overall cancer mortality rates for males and females of Hispanic ethnicity are much lower than that for males and females of all races in New Jersey. Rates by individual years could not be presented due to small numbers. Mortality rates are generally higher for Hispanic males compared with females.

Comparison of Cancer Mortality Data for New Jersey with the United States, 1995-1999 (Tables 19-20)

For all cancer sites combined, New Jersey cancer mortality rates were higher among males than the corresponding rates for the U.S. However, mortality rates for black males were somewhat lower in New Jersey than the comparable rate for the U.S. Lung cancer mortality rates in males were lower in New Jersey than for the nation. Mortality rates for colorectal cancer and prostate cancer were higher in New Jersey than the U.S. except among black males for whom prostate cancer mortality rates were lower in New Jersey than the U.S.

Among females, the mortality rates for all sites combined, lung, colorectal, and breast cancers were higher in New Jersey than the U.S. as a whole during this five-year period.

TECHNICAL NOTES

Registry Overview

The objectives of the New Jersey State Cancer Registry (NJSCR) are to:

- * monitor cancer trends in New Jersey
- * promote scientific research
- * respond to New Jersey residents about cancer concerns
- * educate the public
- * provide information for planning and evaluating cancer prevention and control activities and
- * share and compare cancer data with other states and the nation.

The New Jersey State Cancer Registry is a population-based incidence registry that serves the entire state of New Jersey, with a population of approximately 8.4 million people. The NJSCR was established by legislation (NJSA 26:2-104 et. seq.) and includes all cases of cancer diagnosed in New Jersey residents since October 1, 1978. New Jersey regulations (NJAC 8:57A) require the reporting of all newly diagnosed cancer cases to the NJSCR within three months of hospital discharge or six months of diagnosis, whichever is sooner. Reports are filed by hospitals, diagnosing physicians, dentists, and independent clinical laboratories. Every hospital in New Jersey is now reporting cancer cases electronically. In addition, reporting agreements are maintained with New York, Pennsylvania, Delaware, Florida, Maryland, and North Carolina so that New Jersey residents diagnosed with cancer outside the state can be identified. Legislation in 1996 strengthened the Registry by (1) requiring electronic reporting, (2) requiring abstracting by certified tumor registrars and (3) establishing penalties for late or incomplete reporting. Timely reporting of cancer data is required by law.

All primary invasive and *in situ* neoplasms are reportable to the NJSCR, except cervical cancer *in situ* diagnosed after 1994 and certain carcinomas of the skin. The information collected by the NJSCR includes basic patient identifiers, demographic characteristics of the patient, medical information on each cancer diagnosis (such as the anatomic site, histologic type and summary stage of disease), and vital status (alive or deceased) determined annually. For deceased cases, the underlying cause of death is also included. The primary site, behavior, grade, and histology of each cancer are coded according to the *International Classification of Disease for Oncology (ICD-O), 2nd edition*. The NJSCR follows the data standards promulgated by the North American Association of Central Cancer Registries (NAACCR), including the use of the Surveillance, Epidemiology, and End Results (SEER) multiple primary rules.

The NJSCR is a member of NAACCR, an organization that sets standards for cancer registries, facilitates data exchange, and publishes cancer data. The NJSCR been a participant of the National Program of Cancer Registries sponsored by the Centers for Disease Control and Prevention since it began in 1994 and is one of the National Cancer Institute's SEER expansion registries.

Description of Algorithm for Designating Hispanic Ethnicity

The NJSCR has used data on birthplace, marital status, race and surname to augment the number of reported cases and decedents with Hispanic ethnicity in the registry during the years 1990-2000. Only since 1990, are reliable estimates of the Hispanic population by gender and age available.

The method used to assign Hispanic ethnicity to cases was adapted from algorithms developed by the Illinois State Cancer Registry (ISCR) and by the NJSCR. The ISCR used the 1990 Census surname list to classify surnames according to the percent of persons with that surname in the U.S. Census who identified themselves as Hispanic.

The ISCR evaluation of their algorithm concluded that 1) surnames and their relationships to Hispanic status presented in the 1990 Census surname list were very similar to those observed for Illinois cancer patients and decedents during years 1986-1996, 2) Hispanic non-U.S. birthplaces were demonstrated to be valid indirect identifiers of Hispanic status, and 3) exclusion of patients and decedents based on race, birthplace and/or surname status from indirect identification was shown to increase positive predictive values for Hispanic status.

The ISCR used the 1990 U.S. Census surname list to assign Hispanic ethnicity. The Census list includes 25,276 Spanish surnames, which were classified into 28 categories based upon the proportion of householders who identified themselves as Hispanic in the 1990 census. These categories were then collapsed into six broad categories: "heavily Hispanic", "generally Hispanic", "moderately Hispanic", "occasionally Hispanic", "rarely Hispanic", and "no match." These categories are defined as follows:

| Spanish Surname Classification | Proportion of Householders who identified themselves as Hispanic |
|--------------------------------|--|
| Heavily Hispanic | > 75% |
| Generally Hispanic | 51% - 75% |
| Moderately Hispanic | 26% - 50% |
| Occasionally Hispanic | 6% - 25% |
| Rarely Hispanic | <= 5% |
| no match | No matching surname on the census list |

Birthplace also plays a role in assigning Hispanic ethnicity. There were two groups of birthplaces pertaining to Hispanic ethnicity: (a) birthplaces associated with a high probability of Hispanic ethnicity, and (b) birthplaces associated with a high prevalence of Spanish surnames but low probability of Hispanic ethnicity. The groups are as follows:

| | High Prevalence of Spanish Surnames |
|---|---|
| High Probability of Hispanic Ethnicity | but Low Probability of Hispanic Ethnicity |
| Puerto Rico, Mexico, Cuba, Central America | Atlantic/Caribbean Area (except Cuba and |
| (Guatemala, Belize, Honduras, El Salvador, | Puerto Rico); Panama Canal Zone, Brazil, |
| Nicaragua, Costa Rica, Panama), South America | Guyana, Surinam, Hawaii, French Guyana, |
| (Colombia, Venezuela, Ecuador, Peru, Bolivia, | Europe (except Spain) including Portugal; and |
| Chile, Argentina, Paraguay, and Uruguay), Spain | Asia including the Philippines. |
| including Canary Islands, Balearic Island, and | |
| Andorra. | |

The procedures of the algorithm are summarized as follows.

- 1. If the information received from the cancer reporting source has already identified the patient as Hispanic, then the case retains the classification of Hispanic ethnicity.
- 2. If individuals have heavily Hispanic surnames (maiden names for ever-married women, last names for males, and last names for never-married women or ever-married women without maiden names), they are assigned Hispanic ethnicity with the following exceptions: 1) those who were born in a birthplace associated with high Spanish surname prevalence but low probability of Hispanic ethnicity are non-Hispanic, and 2) those who were American Indian, Filipino or Hawaiian are non-Hispanic.
- 3. The algorithm assigns those whose birthplace is associated with a high probability of Hispanic ethnicity as Hispanic, except for cases whose surname appears in the rarely Hispanic or no match census Spanish surname categories.

As a result of using the above algorithm, the NJSCR was able to assign an additional 26% of cases as Hispanic to the incidence data. This enhancement is consistent with that reported by the ISCR. Hispanic mortality data for this report were obtained from NCI's SEER Program and did not have the algorithm applied to them. In our detailed report, *Cancer Among Hispanics in New Jersey*, 1990-1996, the algorithm was applied to mortality data from the New Jersey Center for Health Statistics producing somewhat higher rates than what is seen here for 1996-1999.

Data Sources

New Jersey cancer incidence data were taken from the August 2002 analytic file and tabulated using SEER*Stat (http://seer.cancer.gov/ScientificSystems/SEERStat/), a statistical software package distributed by the National Cancer Institute. New Jersey cancer mortality data were taken from the National Cancer Institute's SEER Program and also tabulated using SEER*Stat. U.S. cancer incidence and mortality data were obtained from NAACCR's publication, *Cancer in North America 1995-1999*. The 1996-1999 population estimates were provided by the National Cancer Institute's SEER Program and the 2000 population estimates were provided by the U.S. Census Bureau.

For this report, rates were calculated for invasive cancers only with the exception of cancer of the bladder, for which *in situ* cases are included. The reason for excluding the *in situ* cases for most of the report is that data on cancer incidence for the U.S. exclude *in situ* cases or include *in situ* cases separately from the invasive cases. Statistics for *in situ* cancers of the breast are presented but are not included in the statistics for all sites.

Out-of-state residents are excluded from New Jersey rates. Persons of unknown age and/or gender would also be excluded however there were none. Race-specific information is not shown separately for persons of non-white or non-black races (including unknown race), but this information is included in the "all races" data.

The NJSCR also follows the guidelines and standard practices of the SEER Program in determining multiple primary cancers for an individual. An individual may develop more than one type of cancer within a given year. Following the SEER multiple primary rules, patients could therefore be counted more than once if they were diagnosed with two or more primary cancers.

Data Quality

NAACCR has awarded the NJSCR the Gold Standard, the highest standard possible, for the quality of the 1995 through 1999 data. The criteria used to judge the quality of the data were completeness of cancer case ascertainment, completeness of certain information on the cancer cases, percent of death certificate only cases, percent of duplicate cases, passing an editing program, and timeliness. The NJSCR has consistently achieved the highest level of certification for its data since the inception of this award.

Completeness of reporting was estimated by comparing New Jersey and U.S. incidence to mortality ratios for whites, standardized for age, gender, and cancer site. The data used to generate these ratios were the cancer incidence rates for all SEER registries combined. Using these standard formulae, it is possible for the estimation of completeness to be greater than 100%. For 2000, the completeness of case reporting was estimated as 100.4% when this report was prepared. In contrast, the 1999 rates for the comparable incidence report for the years 1995-1999, which the New Jersey Department of Health & Senior Services issued in September of 2001, was calculated to be 104% at that time.

While our estimates of completeness are very high, some cases of cancer among New Jersey residents who were diagnosed and/or treated in out-of-state facilities may not yet have been reported to New Jersey by other state registries. This fact should be considered in interpreting the data for the more recent years. However, these relatively few cases will not significantly affect the cancer rates, or alter the overall trends presented in this report.

Other 2000 data quality indicators measured were as follows:

Incidence:

Percent death-certificate-only cases: 1.7% Percent of unresolved duplicates: 0.02%

Percent of unknown race: 0.0% Number of unknown age: 0 Number of unknown gender: 0

Calculation of Rates

A cancer incidence rate is defined as the number of new cases of cancer detected during a specified time period in a specified population. These rates are most commonly expressed as cases per 100,000 population. Cancer occurs at different rates in different age groups, and population subgroups defined by gender and race have different age distributions. Therefore, before a valid comparison can be made between rates, it is necessary not only to adjust the rates by age but also to standardize the rates to the age distribution of a standard population. In this report, the 2000 U.S. population standard was used. Records that were missing gender, age, or race could not be included in the rates presented in this report. Since the number of records so affected are very small, the rates are virtually unaffected by the non-inclusion of these records.

The first step in this procedure was to determine the age-specific rates. For each age group for a given time interval (within each race-gender group, for the entire state), the following formula was applied:

$$r_a = \frac{n_a}{t \times P_a}$$

where:

 $r_a =$ the age-specific rate for age group a,

 $n_a =$ the number of events (cancer diagnoses) in the age group during the time interval,

t = the length of the time interval (in years), and

 P_a = average size of the population in the age group during the time interval (mid- year population or average of mid-year population sizes).

In order to determine the age-adjusted and standardized rate, a weighted average of the age-specific rates was calculated, using the age distribution of the standard population to derive the age-specific weighting factors (Rothman, 1986). This is the technique of direct standardization, which uses the following formula:

$$R = \frac{\sum_{a=1}^{n} r_a \times Std. P_a}{\sum_{a=1}^{n} Std. P_a}$$

where:

R =the age-adjusted rate

 r_a = the age-specific rate for age group a, and

Std.P_a = the size of the standard population in each age group a.

While age adjustment and standardization facilitates the comparison of rates among different populations, there can be important age-specific differences in disease occurrence, which are not apparent in comparisons of the age-adjusted rates (Breslow and Day, 1987).

Analogous definitions and calculations apply for cancer mortality rates.

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Table 1. Age-adjusted Incidence Rates, Males All Races Combined

| 3,250 2,947 143 781 | 1996 628.3 16.6 0.8 | 1997 634.9 16.4 | 1998 628.4 16.1 | 1999 615.7 | 2000 Prelim. 613.1 |
|------------------------------|--|--|---|---|---|
| 2,947 143 781 | 16.6 | | | 615.7 | 613.1 |
| 143 781 | | 16.4 | 16.1 | | |
| 143 781 | | 16.4 | 16 1 | | |
| 781 | 0.8 | | 10.1 | 14.6 | 15.1 |
| | | 1.0 | 0.9 | 0.6 | 0.7 |
| | 4.2 | 3.7 | 4.8 | 4.0 | 3.9 |
| 297 | 1.5 | 1.8 | 1.8 | 1.4 | 1.8 |
| 233 | 1.4 | 1.5 | 1.2 | 1.2 | 0.8 |
| 398 | 2.5 | 2.3 | 2.1 | 1.8 | 2.0 |
| 191 | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 |
| 363 | 2.0 | 1.7 | 2.0 | 1.6 | 2.1 |
| 126 | 0.6 | 0.9 | 0.4 | 0.6 | 0.8 |
| 291 | 1.8 | 1.5 | 1.3 | 1.5 | 1.6 |
| | | | | | |
| 3,158 | 130.3 | 131.8 | 134.1 | 129.8 | 125.4 |
| 1,623 | 8.7 | 8.8 | 9.4 | 8.7 | 8.9 |
| 2,595 | 15.1 | 15.6 | 15.2 | 15.0 | 12.4 |
| 358 | 1.6 | 1.7 | 2.1 | 2.3 | 2.1 |
| 3,856 | 79.7 | 79.5 | 79.5 | 77.8 | 75.4 |
| | 55.7 | 56.4 | 56.0 | 54.8 | 52.5 |
| | 24.1 | 23.1 | 23.5 | 22.9 | 22.8 |
| | 0.7 | 1.3 | 1.1 | 1.2 | 0.6 |
| 1,421 | 7.8 | | 8.0 | 7.1 | 8.8 |
| | 6.7 | 6.0 | 6.9 | 6.2 | 7.8 |
| 176 | 1.0 | 1.2 | | 0.9 | 1.0 |
| 206 | | | | | 1.1 |
| | | | | | 13.2 |
| , | | | | | |
| 8.914 | 108.8 | 108.2 | 108.5 | 98.2 | 98.8 |
| | | | | | 8.1 |
| | | | | | 86.7 |
| 0,000 | 00.0 | 0 1.0 | 00.0 | 01.0 | 00.7 |
| 228 | 1.6 | 1.1 | 1.3 | 1.1 | 1.0 |
| | | | | | |
| 710 | 3.8 | 3.7 | 4.0 | 4.0 | 3.5 |
| 4.226 | 23 1 | 24.5 | 22.5 | 22.0 | 21.9 |
| | | | | | 19.1 |
| | 297 233 398 191 363 126 291 3,158 1,623 2,595 358 3,856 9,643 4,213 1,421 1,245 176 206 2,384 8,914 1,574 6,609 | 781 4.2 297 1.5 233 1.4 398 2.5 191 0.9 363 2.0 126 0.6 291 1.8 3,158 130.3 1,623 8.7 2,595 15.1 358 1.6 3,856 79.7 9,643 55.7 4,213 24.1 1,245 6.7 1,421 7.8 1,245 6.7 176 1.0 2,384 13.0 8,914 108.8 1,574 9.1 6,609 95.3 228 1.6 710 3.8 4,226 23.1 | 781 4.2 3.7 297 1.5 1.8 233 1.4 1.5 398 2.5 2.3 191 0.9 0.9 363 2.0 1.7 126 0.6 0.9 291 1.8 1.5 3,158 130.3 131.8 1,623 8.7 8.8 2,595 15.1 15.6 358 1.6 1.7 3,856 79.7 79.5 9,643 55.7 56.4 4,213 24.1 23.1 1,245 6.7 6.0 1,245 6.7 6.0 1,245 6.7 6.0 1,574 9.1 9.3 6,609 95.3 94.9 228 1.6 1.1 710 3.8 3.7 4,226 23.1 24.5 | 781 4.2 3.7 4.8 297 1.5 1.8 1.8 233 1.4 1.5 1.2 398 2.5 2.3 2.1 191 0.9 0.9 1.0 363 2.0 1.7 2.0 126 0.6 0.9 0.4 291 1.8 1.5 1.3 3,158 130.3 131.8 134.1 1,623 8.7 8.8 9.4 2,595 15.1 15.6 15.2 3,856 79.7 79.5 79.5 9,643 55.7 56.4 56.0 4,213 24.1 23.1 23.5 181 0.7 1.3 1.1 1,421 7.8 7.1 8.0 1,245 6.7 6.0 6.9 176 1.0 1.2 1.1 206 1.3 1.5 1.3 2,574 9.1 | 781 4.2 3.7 4.8 4.0 297 1.5 1.8 1.8 1.4 233 1.4 1.5 1.2 1.2 398 2.5 2.3 2.1 1.8 191 0.9 0.9 1.0 1.1 363 2.0 1.7 2.0 1.6 126 0.6 0.9 0.4 0.6 291 1.8 1.5 1.3 1.5 3,158 130.3 131.8 134.1 129.8 1,623 8.7 8.8 9.4 8.7 2,595 15.1 15.6 15.2 15.0 358 1.6 1.7 2.1 2.3 3,856 79.7 79.5 79.5 77.8 9,643 55.7 56.4 56.0 54.8 4,213 24.1 23.1 23.5 22.9 181 0.7 1.3 1.1 1.2 1,421 7.8 7.1 8.0 7.1 1,245 6.7 <td< td=""></td<> |

Table 1 (continued). Age-adjusted Incidence Rates, Males All Races Combined

| | Total | | | Rates | | |
|---|--------|-------------|-------------|------------|-------------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| Breast | 315 | 1.7 | 1.6 | 1.4 | 1.7 | 2.2 |
| | | | | | | |
| Male Genital System | 36,443 | 196.8 | 205.7 | 190.9 | 198.6 | 203.6 |
| Prostate | 35,139 | 190.8 | 199.4 | 184.1 | 191.8 | |
| Testis | 1,104 | 5.0 | 5.3 | 5.5 | 5.8 | |
| Penis | 150 | 0.6 | 8.0 | 1.1 | 0.7 | 1.1 |
| Urinary System | 11,506 | 62.2 | 62.6 | 65.5 | 66.4 | 64.4 |
| Urinary Bladder (Including in situ) | 7,870 | 42.9 | 44.2 | 44.7 | 46.3 | 44.6 |
| Kidney and Renal Pelvis | 3,363 | 18.2 | 17.1 | 18.9 | 18.3 | 18.1 |
| Ureter | 185 | 0.8 | 1.0 | 1.3 | 1.1 | 1.1 |
| Eye and Orbit | 201 | 1.1 | 1.2 | 1.1 | 0.6 | 1.2 |
| Dunin and Other Namena System | 4.505 | 0.0 | 0.7 | 0.7 | 7.0 | 0.0 |
| Brain and Other Nervous System | 1,595 | 8.2 | 8.7 | 8.7 | 7.9 | |
| Brain | 1,493 | 7.8 | 8.1 | 8.2 | 7.3 | 7.8 |
| Endocrine System | 927 | 3.7 | 4.2 | 4.9 | 5.3 | 5.8 |
| Thyroid | 760 | 2.9 | 3.4 | 4.0 | 4.3 | 4.9 |
| Lymphomas | 5,455 | 30.4 | 28.6 | 31.0 | 29.2 | 28.0 |
| Hodgkin Lymphoma | 710 | 3.9 | 3.5 | 3.8 | 3.8 | 3.3 |
| Non-Hodgkin Lymphoma | 4,745 | 26.5 | 25.1 | 27.2 | 25.5 | 24.8 |
| Myelomas | 1,257 | 6.8 | 7.1 | 7.4 | 6.6 | 7.2 |
| | 0.050 | 40.0 | 45.0 | 40.0 | 40.0 | 40.0 |
| Leukemias | 2,850 | 16.9 7.4 | 15.8 5.9 | 16.2 | 16.0 6.9 | |
| Lymphocytic Leukemia | 1,206 | | | 7.3 | | |
| Acute Lymphocytic Leukemia | 324 | 1.9 | 1.5 | 2.1 5.1 | 1.8 | |
| Chronic Lymphocytic Leukemia | 848 | 5.3 | | | 4.9 | |
| Myeloid Leukemia | 1,253 | 7.5 4.9 | 7.7 4.9 | 6.6 | 6.5 | |
| Acute Myeloid Leukemia Chronic Myeloid Leukemia | 822 | | 4.9 2.6 | 4.3 | 4.6 1.8 | |
| Monocytic Leukemia | 405 | 2.4 0.1 | | 2.2 | | 1.9 |
| | 56 | | 0.3 | 0.4 | 0.4 | 0.3 |
| Other Leukemia | 335 | 1.9 | 1.9 | 2.0 | 2.1 | 1.7 |
| III-Defined & Unspecified Sites | 2,518 | 16.3 | 13.7 | 14.9 | 14.0 | 12.8 |

Table 2. Age-adjusted Incidence Rates, Females All Races Combined

| | Total | | | Rates | | |
|--|---------|-------|-------|-------|-------|---------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| All Sites | 108,618 | 453.3 | 463.9 | 467.1 | 454.5 | 443.5 |
| | | | | | | |
| Oral Cavity and Pharynx | 1,540 | 6.9 | 6.2 | 6.3 | 7.2 | 5.8 |
| Lip | 70 | 0.3 | | 0.3 | 0.3 | 0.2 |
| Tongue | 378 | 1.8 | 1.4 | 1.5 | 1.8 | 1.5 |
| Salivary Gland | 254 | 1.3 | 1.1 | 1.2 | 0.9 | 1.0 |
| Floor of Mouth | 118 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 |
| Gum and Other Mouth | 332 | 1.2 | 1.3 | 1.3 | 1.7 | 1.2 |
| Nasopharynx | 74 | 0.4 | 0.3 | 0.4 | 0.4 | 0.2 |
| Tonsil | 131 | 0.7 | 0.5 | 0.4 | 0.8 | 0.5 |
| Oropharynx | 54 | 0.1 | 0.1 | 0.2 | 0.4 | 0.3 |
| Hypopharynx | 75 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 |
| Digestive System | 21,300 | 84.3 | 87.5 | 87.9 | 83.7 | 82.0 |
| Esophagus | 602 | 2.2 | 2.7 | 2.3 | 2.5 | 2.4 |
| Stomach | 1,738 | 7.0 | 7.2 | 7.6 | 6.7 | 6.2 |
| Small Intestine | 309 | 1.2 | 1.1 | 1.3 | 1.6 | 1.3 |
| Colon and Rectum | 13,767 | 54.8 | 56.4 | 57.5 | 53.3 | 52.4 |
| Colon excluding Rectum | 10,333 | 41.0 | 42.2 | 43.0 | 39.8 | 38.9 |
| Rectum and Rectosigmoid Junction | 3,434 | 13.8 | 14.2 | 14.5 | 13.5 | 13.5 |
| Anus, Anal Canal and Anorectum | 334 | 1.4 | 1.7 | 1.2 | 1.3 | 1.4 |
| Liver and Intrahepatic Bile Duct | 706 | 2.7 | 2.9 | 2.7 | 2.8 | 3.0 |
| Liver | 504 | 2.0 | 2.3 | 1.7 | 2.1 | 2.1 |
| Intrahepatic Bile Duct | 202 | 0.7 | 0.7 | 1.0 | 0.7 | 0.9 |
| Gallbladder | 446 | 2.0 | 1.8 | 1.8 | 1.8 | 1.5 |
| Pancreas | 2,827 | 10.9 | 11.5 | 11.3 | 11.2 | 11.3 |
| Respiratory System | 14,257 | 59.3 | 59.1 | 60.2 | 58.9 | 56.7 |
| Larynx | 424 | 2.0 | 1.7 | 2.2 | 1.6 | 1.6 |
| Lung and Bronchus | 13,518 | 56.0 | 55.9 | 56.8 | 56.0 | 53.9 |
| | 2.12 | | | | | |
| Bones and Joints | 218 | 1.0 | 1.0 | 1.3 | 0.9 | 0.9 |
| Soft Tissue (Including Heart) | 647 | 2.6 | 3.3 | 2.8 | 2.4 | 3.0 |
| Skin (Excluding Basal and Squamous) | 3,047 | 12.2 | 14.4 | 13.3 | 12.7 | 13.3 |
| Melanoma of the Skin | 2,759 | 10.8 | 13.1 | 11.9 | 11.7 | 12.2 |
| Breast (Invasive) | 32,337 | 137.5 | 142.3 | 141.9 | 140.4 | 135.4 |
| in situ (not included in All Sites) | 7,007 | 23.2 | 25.9 | 28.4 | 30.1 | 28.5 |
| Rates are per 100 000 and age-adjusted to the 2000 L | | | 20.0 | 20.4 | 50.1 | 20.0 |

Table 2 (continued). Age-adjusted Incidence Rates, Females All Races Combined

| | Total | | | Rates | | |
|-------------------------------------|--------|------|------|-------|------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| Female Genital System | 14,345 | 62.7 | 62.0 | 63.9 | 62.1 | 59.0 |
| Cervix Uteri | 2,452 | 12.4 | 11.3 | 10.9 | 10.5 | 9.7 |
| Corpus and Uterus, NOS | 6,732 | 28.2 | 28.3 | 30.1 | 29.9 | 27.9 |
| Corpus Uteri | 6,449 | 27.0 | 27.0 | 28.6 | 28.8 | 26.9 |
| Uterus, NOS | 283 | 1.2 | 1.3 | 1.5 | 1.1 | 1.0 |
| Ovary | 4,245 | 18.8 | 18.1 | 19.0 | 18.2 | 17.6 |
| Vagina | 160 | 0.5 | 1.0 | 0.5 | 0.6 | 0.7 |
| Vulva | 593 | 2.2 | 2.6 | 2.7 | 2.1 | 2.4 |
| Urinary System | 5,267 | 20.9 | 22.2 | 21.4 | 21.8 | 21.1 |
| Urinary Bladder (Including in situ) | 2,958 | 11.7 | 12.1 | 11.7 | 11.3 | 12.6 |
| Kidney and Renal Pelvis | 2,165 | 8.5 | 9.5 | 9.3 | 9.8 | 8.1 |
| Ureter | 105 | 0.5 | 0.5 | 0.4 | 0.5 | 0.3 |
| Eye and Orbit | 172 | 0.9 | 0.7 | 0.9 | 0.5 | 0.7 |
| Brain and Other Nervous System | 1,422 | 6.3 | 6.0 | 6.4 | 6.5 | 6.0 |
| Brain | 1,293 | 5.7 | 5.5 | 5.6 | 6.0 | 5.5 |
| Endocrine System | 2,402 | 9.5 | 8.9 | 10.3 | 11.5 | 14.6 |
| Thyroid | 2,259 | 8.9 | 8.3 | 9.5 | 11.0 | 14.0 |
| Lymphomas | 5,086 | 20.8 | 22.5 | 22.9 | 21.1 | 20.4 |
| Hodgkin Lymphoma | 644 | 3.2 | 2.9 | 3.2 | 3.1 | 3.0 |
| Non-Hodgkin Lymphoma | 4,442 | 17.6 | 19.6 | 19.7 | 18.1 | 17.4 |
| Myelomas | 1,219 | 4.7 | 5.1 | 5.4 | 4.5 | 5.0 |
| Leukemias | 2,289 | 10.0 | 10.2 | 9.3 | 9.2 | 9.2 |
| Lymphocytic Leukemia | 921 | 3.8 | 4.2 | | | |
| Acute Lymphocytic Leukemia | 270 | 1.4 | | | | |
| Chronic Lymphocytic Leukemia | 619 | 2.3 | 2.8 | | | 2.5 |
| Myeloid Leukemia | 1,026 | 5.0 | 4.3 | 4.3 | | 3.9 |
| Acute Myeloid Leukemia | 742 | 3.8 | 3.0 | 3.0 | | 2.9 |
| Chronic Myeloid Leukemia | 266 | 1.1 | 1.3 | 1.1 | 1.1 | 1.0 |
| Monocytic Leukemia | 49 | 0.1 | 0.2 | 0.3 | | 0.2 |
| Other Leukemia | 293 | 1.1 | 1.4 | 1.2 | 1.1 | 1.0 |
| III-Defined & Unspecified Sites | 3,070 | 13.7 | 12.6 | 12.8 | 11.1 | 10.4 |

Table 3. Age-adjusted Incidence Rates, White Males

| | Total | | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| All Sites | 97,899 | 624.0 | 631.2 | 626.6 | 617.3 | 632.0 |
| | | | | | | |
| Oral Cavity and Pharynx | 2,372 | 15.9 | | 14.5 | 14.2 | 14.9 |
| Lip | 140 | 0.9 | | | 0.7 | 0.9 |
| Tongue | 636 | 4.0 | | 4.6 | 3.8 | 4.0 |
| Salivary Gland | 258 | 1.5 | | | 1.4 | 2.0 |
| Floor of Mouth | 192 | 1.4 | | 1.0 | 1.2 | 0.9 |
| Gum and Other Mouth | 319 | 2.3 | | 2.0 | 1.8 | 2.0 |
| Nasopharynx | 128 | 0.8 | | 0.6 | 1.0 | 0.8 |
| Tonsil | 294 | 2.0 | | 1.7 | 1.6 | 2.1 |
| Oropharynx | 95 | 0.5 | 0.8 | 0.3 | 0.6 | 8.0 |
| Hypopharynx | 212 | 1.7 | 1.4 | 0.9 | 1.4 | 1.3 |
| | | | | | | |
| Digestive System | 19,999 | 129.5 | 130.6 | 132.0 | 129.1 | 128.1 |
| Esophagus | 1,325 | 8.0 | 8.1 | 8.8 | 8.5 | 8.8 |
| Stomach | 2,147 | 14.2 | 14.9 | 14.5 | 14.4 | 12.0 |
| Small Intestine | 291 | 1.5 | 1.6 | 2.0 | 2.0 | 2.1 |
| Colon and Rectum | 12,274 | 81.2 | 80.7 | 80.3 | 79.0 | 78.4 |
| Colon excluding Rectum | 8,516 | 56.0 | 57.2 | 56.5 | 55.1 | 54.4 |
| Rectum and Rectosigmoid Junction | 3,758 | 25.1 | 23.5 | 23.8 | 23.8 | 24.0 |
| Anus, Anal Canal and Anorectum | 145 | 0.7 | 1.2 | 1.0 | 1.1 | 0.6 |
| Liver and Intrahepatic Bile Duct | 1,116 | 7.2 | 6.2 | 7.2 | 6.5 | 8.6 |
| Liver | 969 | 6.2 | 5.3 | 6.2 | 5.7 | 7.5 |
| Intrahepatic Bile Duct | 147 | 1.0 | 1.0 | 1.0 | 0.9 | 1.1 |
| Gallbladder | 178 | 1.2 | 1.5 | 1.3 | 0.8 | 1.1 |
| Pancreas | 2,062 | 13.2 | 13.1 | 13.6 | 13.4 | 13.7 |
| | | | | | | |
| Respiratory System | 16,242 | 106.8 | 106.6 | 107.2 | 97.2 | 100.2 |
| Larynx | 1,288 | 8.4 | 8.8 | 8.4 | 7.3 | 7.8 |
| Lung and Bronchus | 14,280 | 93.7 | 93.6 | 94.4 | 86.1 | 87.8 |
| Bones and Joints | 192 | 1.5 | 1.1 | 1.3 | 1.1 | 1.2 |
| Soft Tissue (Including Heart) | 613 | 3.9 | 3.7 | 4.3 | 4.0 | 3.8 |
| Skin (Excluding Basal and Squamous) | 4,052 | 25.2 | 27.4 | 25.3 | 25.0 | 26.1 |
| Melanoma of the Skin | 3,643 | 22.1 | 25.1 | 22.5 | 22.9 | 23.1 |

Table 3 (continued). Age-adjusted Incidence Rates, White Males

| | Total | | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| Breast | 277 | 1.7 | 1.5 | 1.5 | 1.6 | 2.4 |
| | | | | | | |
| Male Genital System | 30,711 | 189.4 | 197.9 | 186.6 | 193.1 | 202.9 |
| Prostate | 29,496 | 182.4 | 190.5 | 178.7 | 185.2 | |
| Testis | 1,044 | 6.0 | 6.3 | 6.5 | 7.0 | |
| Penis | 125 | 0.5 | 0.8 | 1.1 | 0.6 | 1.1 |
| Urinary System | 10,628 | 65.6 | 65.7 | 69.6 | 71.1 | 69.9 |
| Urinary Bladder (Including in situ) | 7,441 | 46.3 | 47.1 | 48.2 | 50.6 | 48.9 |
| Kidney and Renal Pelvis | 2,926 | 18.1 | 17.1 | 19.3 | 18.7 | 19.1 |
| Ureter | 179 | 0.9 | 1.1 | 1.4 | 1.2 | 1.2 |
| Eye and Orbit | 186 | 1.2 | 1.5 | 1.1 | 0.7 | 1.4 |
| Brain and Other Nervous System | 1,405 | 8.7 | 9.4 | 8.9 | 8.2 | 9.4 |
| Brain | 1,320 | 8.3 | 8.9 | 8.4 | 7.6 | 8.9 |
| Endocrine System | 807 | 3.8 | 4.4 | 5.3 | 5.6 | 6.2 |
| Thyroid | 670 | 3.1 | 3.6 | 4.4 | 4.7 | 5.3 |
| Lymphomas | 4,734 | 30.9 | 29.9 | 31.2 | 29.5 | 30.4 |
| Hodgkin Lymphoma | 592 | 4.1 | 3.6 | 3.9 | 3.9 | 3.7 |
| Non-Hodgkin Lymphoma | 4,142 | 26.9 | 26.2 | 27.3 | 25.7 | 26.8 |
| Myelomas | 993 | 6.1 | 6.4 | 6.6 | 6.0 | 6.9 |
| Leukemias | 2,524 | 18.0 | 16.0 | 16.5 | 16.5 | 15.2 |
| Lymphocytic Leukemia | 1,076 | 7.9 | 6.0 | 7.7 | 7.2 | 6.5 |
| Acute Lymphocytic Leukemia | 273 | 2.1 | 1.6 | 2.2 | 1.7 | 1.4 |
| Chronic Lymphocytic Leukemia | 775 | 5.6 | 4.3 | 5.4 | 5.2 | 4.9 |
| Myeloid Leukemia | 1,104 | 8.0 | 7.8 | 6.6 | 6.7 | 6.4 |
| Acute Myeloid Leukemia | 739 | 5.3 | 5.0 | 4.3 | 4.9 | 4.3 |
| Chronic Myeloid Leukemia | 342 | 2.5 | 2.6 | 2.2 | 1.6 | 2.0 |
| Monocytic Leukemia | 48 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 |
| Other Leukemia | 296 | 2.0 | 1.9 | 1.9 | 2.1 | 1.9 |
| III-Defined & Unspecified Sites | 2,164 | 15.7 | 13.7 | 14.6 | 14.1 | 13.0 |

Table 4. Age-adjusted Incidence Rates, White Females

| | Total Rates | | | | | |
|-------------------------------------|-------------|------------|-------|------------|-------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| All Sites | 95,077 | 467.7 | 473.9 | 477.7 | 467.9 | 473.0 |
| Ovel Cavity and Dhaminy | 4 202 | 0.0 | 0.0 | 5 0 | 7.4 | 0.0 |
| Oral Cavity and Pharynx | 1,303 | 6.9 0.2 | 6.2 | 5.9 | 7.1 | 6.0 |
| Lip | 64 | | 0.4 | 0.3 | | 0.3 |
| Tongue | 327 220 | 1.8 | 1.4 | 1.5 | 1.7 | 1.6 |
| Salivary Gland Floor of Mouth | | 1.4 | 1.1 | 1.1 | 0.9 | 1.0 |
| | 100 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 |
| Gum and Other Mouth | 286 | 1.3 | 1.3 | 1.2 | 1.8 | 1.2 |
| Nasopharynx | 48 | 0.4 | 0.3 | 0.2 | 0.3 | 0.2 |
| Tonsil | 107 | 0.5 | 0.5 | 0.4 | 0.8 | 0.5 |
| Oropharynx | 45 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 |
| Hypopharynx | 61 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Digestive System | 18,441 | 84.0 | 86.5 | 86.6 | 82.5 | 82.3 |
| Esophagus | 474 | 2.0 | 2.2 | 2.2 | 2.3 | 2.2 |
| Stomach | 1,390 | 6.4 | 6.6 | 6.9 | 6.0 | 5.6 |
| Small Intestine | 256 | 1.1 | 1.1 | 1.3 | 1.3 | 1.3 |
| Colon and Rectum | 12,108 | 55.6 | 56.4 | 57.4 | 53.3 | 53.5 |
| Colon excluding Rectum | 9,087 | 41.4 | 42.2 | 42.6 | 39.3 | 39.9 |
| Rectum and Rectosigmoid Junction | 3,021 | 14.2 | 14.2 | 14.8 | 14.0 | 13.5 |
| Anus, Anal Canal and Anorectum | 295 | 1.4 | 1.7 | 1.3 | 1.4 | 1.5 |
| Liver and Intrahepatic Bile Duct | 584 | 2.4 | 2.9 | 2.7 | 2.7 | 2.7 |
| Liver | 399 | 1.6 | 2.2 | 1.6 | 1.8 | 1.9 |
| Intrahepatic Bile Duct | 185 | 0.8 | 0.7 | 1.1 | 0.8 | 0.8 |
| Gallbladder | 374 | 2.0 | 1.8 | 1.5 | 1.7 | 1.5 |
| Pancreas | 2,451 | 11.0 | 11.5 | 11.1 | 11.1 | 11.4 |
| Decision to the Constant | 40.070 | 64.0 | 60.6 | C4 0 | 00.0 | 60.6 |
| Respiratory System | 12,673 | 61.0 | | 61.3 | | 60.6 |
| Larynx | 354 | 1.9 | 1.8 | 2.0 | 1.6 | 1.6 |
| Lung and Bronchus | 12,041 | 57.7 | 57.3 | 58.1 | 57.8 | 57.7 |
| Bones and Joints | 185 | 1.1 | 1.1 | 1.4 | 0.8 | 1.0 |
| Soft Tissue (Including Heart) | 530 | 2.6 | 3.1 | 2.7 | 2.6 | 3.0 |
| Skin (Excluding Basal and Squamous) | 2,937 | 13.8 | 16.4 | 15.4 | 14.9 | 16.6 |
| Melanoma of the Skin | 2,937 | 12.5 | 15.0 | 14.0 | | 15.5 |
| Meianoma of the SKIII | ∠,005 | 12.5 | 15.0 | 14.0 | 14.0 | 15.5 |
| Breast (Invasive) | 28,278 | 143.2 | 147.0 | 146.7 | 146.8 | 145.5 |
| in situ (not included in All Sites) | 6,126 | 24.0 | 27.6 | 30.1 | 32.4 | 30.9 |

Table 4 (continued). Age-adjusted Incidence Rates, White Females

| Cancer Site | Total Cases | 1996 | 1997 | Rates 1998 | 1999 | 2000 |
|-------------------------------------|----------------|------|------|---------------|------|---------|
| | | | | | | Prelim. |
| Female Genital System | 12,384 | 64.9 | | | | 63.5 |
| Cervix Uteri | 1,846 | 11.6 | 10.3 | | | 9.5 |
| Corpus and Uterus, NOS | 5,978 | 29.7 | 29.2 | 31.5 | 31.7 | 30.5 |
| Corpus Uteri | 5,765 | 28.7 | 28.2 | 30.3 | 30.7 | 29.5 |
| Uterus, NOS | 213 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 |
| Ovary | 3,766 | 20.2 | 18.9 | 19.9 | 19.1 | 19.5 |
| Vagina | 130 | 0.5 | 0.9 | 0.5 | 0.5 | 0.6 |
| Vulva | 532 | 2.3 | 2.6 | 2.8 | 2.1 | 2.5 |
| Urinary System | 4,771 | 22.1 | 23.0 | 22.3 | 22.6 | 23.1 |
| Urinary Bladder (Including in situ) | 2,735 | 12.4 | 12.8 | 12.4 | 12.0 | 14.0 |
| Kidney and Renal Pelvis | 1,910 | 9.0 | 9.5 | 9.4 | 9.9 | 8.7 |
| Ureter | 101 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 |
| Eye and Orbit | 166 | 1.1 | 0.7 | 1.0 | 0.6 | 0.8 |
| Brain and Other Nervous System | 1,263 | 6.7 | 6.3 | 6.8 | 7.0 | 6.9 |
| Brain | 1,155 | 6.2 | 5.8 | 6.0 | 6.5 | 6.3 |
| Endocrine System | 2,056 | 10.2 | 9.5 | 11.4 | 12.5 | 16.2 |
| Thyroid | 1,935 | 9.5 | 8.8 | 10.5 | 11.9 | 15.5 |
| Lymphomas | 4,490 | 21.7 | 23.5 | 23.8 | 21.7 | 22.6 |
| Hodgkin Lymphoma | 555 | 3.5 | 3.2 | 3.6 | 3.3 | 3.6 |
| Non-Hodgkin Lymphoma | 3,935 | 18.3 | 20.3 | 20.2 | 18.4 | 19.0 |
| Myelomas | 928 | 4.5 | 4.4 | 4.5 | 3.9 | 4.3 |
| Leukemias | 2,022 | 10.5 | 10.4 | 9.7 | 9.7 | 10.0 |
| Lymphocytic Leukemia | 825 | 4.1 | 4.4 | 3.8 | 4.2 | 4.5 |
| Acute Lymphocytic Leukemia | 236 | 1.5 | 1.5 | 1.4 | 1.4 | 1.7 |
| Chronic Lymphocytic Leukemia | 562 | 2.4 | 2.8 | 2.3 | 2.8 | 2.6 |
| Myeloid Leukemia | 898 | 5.1 | 4.3 | 4.5 | 4.3 | 4.2 |
| Acute Myeloid Leukemia | 664 | 3.9 | 3.2 | 3.2 | 3.2 | 3.2 |
| Chronic Myeloid Leukemia | 220 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 |
| Monocytic Leukemia | 42 | 0.1 | 0.2 | 0.3 | 0.1 | 0.3 |
| Other Leukemia | 257 | 1.1 | 1.4 | 1.2 | 1.1 | 1.0 |
| III-Defined & Unspecified Sites | 2,650 | 13.5 | 12.6 | 12.5 | 10.4 | 10.5 |

Table 5. Age-adjusted Incidence Rates, Black Males

| | Total | | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| All Sites | 12,543 | 724.5 | 716.4 | 710.3 | 681.7 | 718.4 |
| | | | | | | |
| Oral Cavity and Pharynx | 461 | 23.1 | 23.7 | 27.8 | 16.5 | 23.8 |
| Lip | 2 | 0.0 | 0.2 | 0.0 | 0.3 | 0.0 |
| Tongue | 115 | 5.6 | 4.6 | 7.3 | 5.5 | 5.8 |
| Salivary Gland | 30 | 0.9 | 1.4 | 3.4 | 0.8 | 1.0 |
| Floor of Mouth | 37 | 2.2 | 2.4 | 2.4 | 1.2 | 0.7 |
| Gum and Other Mouth | 61 | 3.9 | 5.0 | 2.1 | 1.4 | 3.9 |
| Nasopharynx | 26 | 0.9 | 1.5 | 0.8 | 0.5 | 1.7 |
| Tonsil | 69 | 3.2 | 2.3 | 5.1 | 2.4 | 3.1 |
| Oropharynx | 30 | 1.6 | 2.1 | 1.5 | 0.6 | 1.9 |
| Hypopharynx | 66 | 3.7 | 2.7 | 4.4 | 2.1 | 4.4 |
| | | | | | | |
| Digestive System | 2,489 | 137.1 | 144.4 | 149.0 | 143.8 | 151.8 |
| Esophagus | 263 | 14.3 | 14.0 | 16.8 | 12.2 | 15.9 |
| Stomach | 337 | 21.6 | 21.7 | 19.0 | 21.0 | 18.7 |
| Small Intestine | 51 | 2.4 | 2.3 | 3.4 | 3.5 | 2.8 |
| Colon and Rectum | 1,286 | 72.1 | 73.2 | 78.2 | 73.4 | 83.1 |
| Colon excluding Rectum | 941 | 54.9 | 54.0 | 57.1 | 56.4 | 60.3 |
| Rectum and Rectosigmoid Junction | 345 | 17.1 | 19.2 | 21.1 | 17.0 | 22.8 |
| Anus, Anal Canal and Anorectum | 34 | 0.7 | 1.9 | 1.8 | 1.9 | 1.0 |
| Liver and Intrahepatic Bile Duct | 180 | 7.4 | 11.1 | 8.5 | 9.8 | 11.0 |
| Liver | 160 | 6.2 | 8.5 | 6.9 | 8.7 | 10.4 |
| Intrahepatic Bile Duct | 20 | 1.2 | 2.5 | 1.6 | 1.1 | 0.6 |
| Gallbladder | 17 | 1.0 | 1.7 | 1.6 | 1.3 | 0.2 |
| Pancreas | 266 | 13.3 | 15.5 | 15.2 | 19.1 | 16.0 |
| | | | | | | |
| Respiratory System | 2,357 | 140.8 | 137.9 | 139.0 | 122.3 | 128.7 |
| Larynx | 254 | 16.0 | 14.9 | 11.1 | 12.0 | 15.4 |
| Lung and Bronchus | 2,061 | 122.5 | 119.2 | 125.7 | 108.4 | 111.8 |
| | | | | | | |
| Bones and Joints | 20 | 1.0 | 0.9 | 0.8 | 0.3 | 0.3 |
| | | | | | | |
| Soft Tissue (Including Heart) | 67 | 2.9 | 2.3 | 1.8 | 4.2 | 3.7 |
| | | | | | | |
| Skin (Excluding Basal and Squamous) | 124 | 7.7 | 5.2 | 5.3 | 3.4 | 2.5 |
| Melanoma of the Skin | 17 | 0.6 | 1.3 | 0.7 | 1.0 | 0.4 |

Table 5 (continued). Age-adjusted Incidence Rates, Black Males

| | Total | | | Rates | | |
|-------------------------------------|-------|-------|------|-------|-------|---------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| Breast | 33 | 1.3 | 3.1 | 1.1 | 2.1 | 2.1 |
| | | | | | | |
| Male Genital System | 4,811 | 284.6 | | | 280.4 | 292.3 |
| Prostate | 4,759 | 283.3 | | 257.4 | 278.7 | 288.9 |
| Testis | 33 | 0.6 | 1.0 | 1.3 | 1.2 | 1.4 |
| Penis | 15 | 0.7 | 0.6 | 1.3 | 0.3 | 1.8 |
| Urinary System | 685 | 40.8 | 41.0 | 41.8 | 36.4 | 43.1 |
| Urinary Bladder (Including in situ) | 326 | 20.3 | 23.1 | 22.3 | 16.9 | 24.5 |
| Kidney and Renal Pelvis | 350 | 20.5 | 17.9 | 18.9 | 18.5 | 17.8 |
| Ureter | 4 | 0.0 | 0.0 | 0.2 | 0.2 | 0.6 |
| Eye and Orbit | 11 | 0.8 | 0.3 | 0.9 | 0.4 | 0.0 |
| Brain and Other Nervous System | 123 | 5.3 | 4.8 | 6.5 | 5.5 | 4.6 |
| Brain | 115 | 4.8 | 4.4 | 6.4 | 5.3 | 4.4 |
| Endocrine System | 76 | 3.2 | 3.3 | 2.1 | 3.2 | 5.9 |
| Thyroid | 53 | 2.4 | 2.1 | 1.6 | 2.3 | 4.3 |
| | | | | | | |
| Lymphomas | 531 | 30.8 | 18.8 | 26.4 | 25.0 | 21.5 |
| Hodgkin Lymphoma | 94 | 3.4 | 3.5 | 3.5 | 5.1 | 3.3 |
| Non-Hodgkin Lymphoma | 437 | 27.4 | 15.2 | 22.8 | 19.9 | 18.2 |
| Myelomas | 228 | 14.0 | 13.4 | 14.7 | 12.1 | 13.9 |
| Leukemias | 226 | 8.4 | 14.6 | 14.3 | 10.7 | 8.6 |
| Lymphocytic Leukemia | 87 | 3.2 | 6.2 | 5.1 | 4.1 | 3.0 |
| Acute Lymphocytic Leukemia | 29 | 1.1 | 0.9 | 1.3 | 1.2 | 0.5 |
| Chronic Lymphocytic Leukemia | 54 | 1.9 | 4.8 | 3.7 | 2.9 | 2.5 |
| Myeloid Leukemia | 108 | 4.4 | 6.3 | 6.5 | 4.1 | 5.0 |
| Acute Myeloid Leukemia | 65 | 2.8 | | 3.7 | 2.6 | 2.4 |
| Chronic Myeloid Leukemia | 42 | 1.6 | 2.8 | 2.7 | 1.5 | 2.6 |
| Monocytic Leukemia | 4 | 0.0 | 0.2 | 0.4 | 0.2 | 0.2 |
| Other Leukemia | 27 | 0.8 | 1.9 | 2.3 | 2.3 | 0.4 |
| III-Defined & Unspecified Sites | 301 | 22.8 | 13.6 | 18.8 | 15.2 | 15.6 |

Table 6. Age-adjusted Incidence Rates, Black Females

| | Total | | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Prelim. |
| All Sites | 10,738 | 392.0 | 432.7 | 447.1 | 408.6 | 421.7 |
| | | | | | | |
| Oral Cavity and Pharynx | 188 | 7.5 | 6.9 | 8.2 | 8.0 | 5.0 |
| Lip | 5 | 0.4 | 0.2 | 0.4 | 0.0 | 0.0 |
| Tongue | 44 | 1.7 | 1.5 | 1.3 | 2.5 | 1.0 |
| Salivary Gland | 25 | 1.1 | 1.1 | 1.1 | 0.8 | 0.5 |
| Floor of Mouth | 15 | 0.5 | 0.6 | 1.1 | 0.6 | 0.2 |
| Gum and Other Mouth | 36 | 1.2 | 1.4 | 2.3 | 1.0 | 1.4 |
| Nasopharynx | 13 | 0.6 | 0.6 | 0.4 | 0.5 | 0.4 |
| Tonsil | 22 | 1.4 | 0.4 | 0.5 | 1.0 | 0.7 |
| Oropharynx | 9 | 0.0 | 0.0 | 0.4 | 0.9 | 0.4 |
| Hypopharynx | 12 | 0.7 | 1.0 | 0.1 | 0.4 | 0.2 |
| Digestive System | 2,336 | 88.9 | 100.4 | 103.2 | 95.6 | 96.2 |
| Esophagus | 114 | 4.6 | 6.0 | 3.9 | 3.6 | 4.8 |
| Stomach | 253 | 9.6 | 11.8 | 11.8 | 9.5 | 10.4 |
| Small Intestine | 43 | 1.5 | 1.5 | 1.3 | 3.5 | 0.7 |
| Colon and Rectum | 1,402 | 53.2 | 60.5 | 61.5 | 56.8 | 57.3 |
| Colon excluding Rectum | 1,078 | 41.7 | 44.8 | 47.8 | 45.4 | 43.2 |
| Rectum and Rectosigmoid Junction | 324 | 11.5 | 15.7 | 13.7 | 11.4 | 14.1 |
| Anus, Anal Canal and Anorectum | 28 | 1.3 | 2.1 | 0.5 | 0.8 | 0.9 |
| Liver and Intrahepatic Bile Duct | 71 | 2.9 | 2.4 | 2.3 | 3.1 | 3.5 |
| Liver | 59 | 2.6 | 2.2 | 1.9 | 2.9 | 2.3 |
| Intrahepatic Bile Duct | 12 | 0.3 | 0.2 | 0.4 | 0.2 | 1.2 |
| Gallbladder | 55 | 2.5 | 1.9 | 4.0 | 1.6 | 2.1 |
| Pancreas | 326 | 11.3 | 12.9 | 14.6 | 14.9 | 15.3 |
| Respiratory System | 1,407 | 53.0 | 56.7 | 63.2 | 54.7 | 53.6 |
| Larynx | 66 | 2.6 | 1.8 | 3.7 | 2.3 | 2.1 |
| Lung and Bronchus | 1,314 | 49.4 | 53.4 | 58.6 | 52.0 | 50.2 |
| Bones and Joints | 16 | 0.3 | 0.3 | 0.8 | 0.8 | 0.3 |
| | | | | | | |
| Soft Tissue (Including Heart) | 92 | 3.6 | 3.5 | 3.2 | 2.1 | 4.3 |
| Skin (Excluding Basal and Squamous) | 57 | 2.6 | 2.4 | 2.5 | 1.4 | 1.4 |
| Melanoma of the Skin | 28 | 1.0 | 1.7 | 1.1 | 0.6 | 0.9 |
| Breast (Invasive) | 3,109 | 111.4 | 119.5 | 121.3 | 110.1 | 127.3 |
| in situ (not included in All Sites) | 592 | 17.2 | 17.4 | 20.2 | 20.2 | 20.4 |

Table 6 (continued). Age-adjusted Incidence Rates, Black Females

| | Total | | | Rates | | |
|-------------------------------------|-------|------|------|-------|------|-------------------------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 | 2000 Preli m. |
| Female Genital System | 1,543 | 55.6 | 62.5 | 62.1 | 55.8 | 55.4 |
| Cervix Uteri | 500 | 18.9 | 19.8 | 18.0 | 16.5 | 17.6 |
| Corpus and Uterus, NOS | 598 | 22.0 | 24.4 | 26.4 | 22.1 | 21.7 |
| Corpus Uteri | 530 | 19.5 | 21.0 | 22.8 | 20.0 | 20.0 |
| Uterus, NOS | 68 | 2.5 | 3.5 | 3.6 | 2.1 | 1.6 |
| Ovary | 346 | 11.8 | 14.4 | 15.0 | 12.6 | 11.6 |
| Vagina | 27 | 0.9 | 1.3 | 0.5 | 0.9 | 1.5 |
| Vulva | 49 | 1.6 | 1.5 | 1.5 | 2.7 | 2.2 |
| Urinary System | 428 | 14.6 | 20.2 | 19.0 | 17.2 | 15.4 |
| Urinary Bladder (Including in situ) | 185 | 7.0 | 9.0 | 8.9 | 6.8 | 7.7 |
| Kidney and Renal Pelvis | 227 | 6.7 | 10.8 | 9.7 | 9.5 | 7.1 |
| Ureter | 3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.2 |
| Eye and Orbit | 3 | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 |
| Brain and Other Nervous System | 108 | 3.8 | 3.8 | 5.0 | 3.8 | 3.5 |
| Brain | 94 | 3.1 | 3.0 | 4.3 | 3.5 | 3.4 |
| Endocrine System | 174 | 4.4 | 5.8 | 4.0 | 5.3 | 10.6 |
| Thyroid | 157 | 3.6 | 4.9 | 3.4 | 5.1 | 10.2 |
| Lymphomas | 456 | 15.5 | 17.3 | 17.7 | 18.4 | 15.1 |
| Hodgkin Lymphoma | 81 | 3.3 | 1.7 | 2.8 | 2.6 | 2.7 |
| Non-Hodgkin Lymphoma | 375 | 12.2 | 15.6 | 15.0 | 15.9 | 12.5 |
| Myelomas | 260 | 7.4 | 10.7 | 12.9 | 10.2 | 12.5 |
| Leukemias | 205 | 7.9 | 10.2 | 8.1 | 6.7 | 8.0 |
| Lymphocytic Leukemia | 72 | 2.5 | 3.6 | 2.9 | 2.1 | 2.8 |
| Acute Lymphocytic Leukemia | 24 | 1.0 | | 1.2 | 0.6 | 0.6 |
| Chronic Lymphocytic Leukemia | 44 | 1.0 | 3.0 | 1.5 | 1.4 | 2.3 |
| Myeloid Leukemia | 98 | 4.2 | 4.9 | 3.7 | 3.4 | 3.3 |
| Acute Myeloid Leukemia | 60 | 3.2 | 2.2 | 2.2 | 2.1 | 2.4 |
| Chronic Myeloid Leukemia | 35 | 1.0 | 2.4 | 1.3 | 1.1 | 0.9 |
| Monocytic Leukemia | 7 | 0.3 | 0.4 | 0.3 | 0.6 | 0.0 |
| Other Leukemia | 28 | 0.9 | 1.3 | 1.2 | 0.6 | 1.9 |
| III-Defined & Unspecified Sites | 356 | 15.4 | 12.2 | 15.6 | 18.4 | 13.1 |

Table 7. Age-adjusted Incidence Rates, Hispanic Males and Females 1996-2000 Combined

| | 1996-2000 Combined | | | | | | |
|-------------------------------------|--------------------|-------|--------|--------|--|--|--|
| Compan Site | Male | Male | Female | Female | | | |
| Cancer Site | Rate | Cases | Rate | Cases | | | |
| All Sites | 454.8 | 5,910 | 331.2 | 6,029 | | | |
| | 10 110 | 0,010 | 00112 | 0,020 | | | |
| Oral Cavity and Pharynx | 11.3 | 162 | 4.6 | 79 | | | |
| Lip | 0.6 | 8 | ^ | ^ | | | |
| Tongue | 3.3 | 45 | 1.2 | 21 | | | |
| Salivary Gland | 0.7 | 12 | 1 | 18 | | | |
| Floor of Mouth | 0.7 | 10 | ^ | ^ | | | |
| Gum and Other Mouth | 1.8 | 25 | 1.1 | 19 | | | |
| Nasopharynx | 0.8 | 14 | ^ | ^ | | | |
| Tonsil | 0.9 | 15 | ^ | ^ | | | |
| Oropharynx | 1.0 | 10 | ^ | ^ | | | |
| Hypopharynx | 1.2 | 19 | ^ | ^ | | | |
| Digestive System | 100.4 | 1,274 | 71.4 | 1,160 | | | |
| Esophagus | 7.0 | 89 | 1.2 | 18 | | | |
| Stomach | 16.0 | 212 | 8.0 | 133 | | | |
| Small Intestine | 1.1 | 18 | 1.0 | 17 | | | |
| Colon and Rectum | 51.2 | 642 | 41.7 | 680 | | | |
| Colon excluding Rectum | 35.9 | 439 | 30.1 | 485 | | | |
| Rectum and Rectosigmoid Junction | 15.3 | 203 | 11.6 | 195 | | | |
| Anus, Anal Canal and Anorectum | 0.4 | 6 | 1.2 | 22 | | | |
| Liver and Intrahepatic Bile Duct | 9.7 | 133 | 4.5 | 71 | | | |
| Liver | 8.7 | 124 | 3.4 | 54 | | | |
| Intrahepatic Bile Duct | 1.0 | 9 | 1.1 | 17 | | | |
| Gallbladder | 1.5 | 17 | 3.0 | 47 | | | |
| Pancreas | 11.2 | 130 | 8.7 | 136 | | | |
| | 22.0 | 700 | 00.4 | 40.4 | | | |
| Respiratory System | 63.3 | 780 | 26.1 | 431 | | | |
| Larynx | 5.6 | 80 | 1.2 | 22 | | | |
| Lung and Bronchus | 55.4 | 663 | 24.2 | 397 | | | |
| Bones and Joints | 1.0 | 23 | 1.2 | 28 | | | |
| | | | | | | | |
| Soft Tissue (Including Heart) | 2.8 | 52 | 3.2 | 65 | | | |
| Skin (Excluding Basal and Squamous) | 8.5 | 138 | 4.2 | 84 | | | |
| Melanoma of the Skin | 5.6 | 78 | 3.1 | 59 | | | |
| | | | | | | | |
| Breast (Invasive) | 0.5 | 9 | 94.2 | 1,780 | | | |
| in situ (not included in All Sites) | ^ | ^ | 18.7 | 371 | | | |

Rates are per 100,000 and age-adjusted to the 2000 U.S. population standard

^ Statistic not displayed due to less than 5 cases.

* Non-applicable gender

Table 7 (continued). Age-adjusted Incidence Rates, Hispanic Males and Females 1996-2000 Combined

| | | 1990-2000 Combined | | | |
|-------------------------------------|-------|--------------------|--------|---------|--|
| | Male | Male | Female | Female | |
| Cancer Site | Rate | Cases | Rate | Cases | |
| | | | | | |
| Female Genital System | * | * | 50.3 | 985 | |
| Cervix Uteri | * | * | 15.2 | 337 | |
| Corpus and Uterus, NOS | * | * | 18.6 | | |
| Corpus Uteri | * | * | 17.5 | | |
| • | 4 | 4 | | | |
| Uterus, NOS | , , | Ï | 1.1 | 20 | |
| Ovary | * | * | 13.1 | 253 | |
| Vagina | * | * | 0.7 | 12 | |
| Vulva | * | * | 2.3 | 36 | |
| Male Genital System | 162.3 | 1,954 | * | * | |
| Prostate | 157.5 | | | * | |
| Testis | 2.9 | | | * | |
| Penis | 1.7 | 25 | * | * | |
| Periis | 1.7 | 20 | | | |
| Urinary System | 37.2 | 455 | 14.6 | 236 | |
| Urinary System | 25.2 | | | | |
| Urinary Bladder (Including in situ) | | | | 108 | |
| Kidney and Renal Pelvis | 11.6 | 164 | 7.3 | 127 | |
| Ureter | ^ | ^ | ^ | ^ | |
| Eye and Orbit | 0.4 | 5 | 0.4 | 7 | |
| Eye and Orbit | 0.4 | 5 | 0.4 | 1 | |
| Brain and Other Nervous System | 7.1 | 129 | 5.7 | 115 | |
| Brain | 6.5 | 116 | 5.2 | 106 | |
| | | | | | |
| Endocrine System | 3.7 | 71 | 11.0 | 258 | |
| Thyroid | 3.1 | 57 | 10.3 | 243 | |
| , | | | | | |
| Lymphomas | 24.9 | 421 | 18.8 | 362 | |
| Hodgkin Lymphoma | 2.8 | | 2.5 | 60 | |
| Non-Hodgkin Lymphoma | 22.0 | | | 302 | |
| Non Hougkin Lymphoma | 22.0 | 334 | 10.5 | 302 | |
| Myelomas | 6.9 | 80 | 5.4 | 85 | |
| , | | | | | |
| Leukemias | 12.7 | 208 | 8.9 | 181 | |
| Lymphocytic Leukemia | 3.8 | 72 | 3.7 | 80 | |
| Acute Lymphocytic Leukemia | 1.6 | 43 | 2.2 | 57 | |
| Chronic Lymphocytic Leukemia | 1.9 | | | 21 | |
| Myeloid Leukemia | 6.8 | | | 79 | |
| Acute Myeloid Leukemia | 3.6 | | | 56 | |
| Chronic Myeloid Leukemia | 2.9 | | | 21 | |
| · | 2.9 | 43 ^ | 1.1 | ∠1 ^ | |
| Monocytic Leukemia | | | | | |
| Other Leukemia | 1.9 | 19 | 1.1 | 19 | |
| III-Defined & Unspecified Sites | 11.8 | 149 | 11.3 | 173 | |

Rates are per 100,000 and age-adjusted to the 2000 U.S. population standard

^ Statistic not displayed due to less than 5 cases.

* Non-applicable gender

Table 8. Comparative Incidence Rates, 5-Year Thyroid New Jersey and U.S., 1980-1999 Males

| | 1980- | -1984 | 1985-1989 | | 1990-1994 | | 1995-1999 | |
|-----------|-------|-------|-----------|-----|-----------|-----|-----------|-----|
| | NJ | US | NJ | US | NJ | US | NJ | US |
| All races | 2.3 | 2.7 | 2.9 | 3.0 | 2.9 | 3.3 | 3.6 | 3.6 |
| White | 2.4 | 2.6 | 3.1 | 3.0 | 3.0 | 3.4 | 3.8 | 3.8 |
| Black | 1.2 | 1.6 | 1.6 | 1.3 | 1.7 | 2.2 | 2.1 | 1.7 |

Source-SEER Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 9. Comparative Incidence Rates, 5-Year Thyroid New Jersey and U.S., 1980-1999 Females

| | 1980- | -1984 | 1985-1989 | | 1990-1994 | | 1995-1999 | |
|-----------|-------|-------|-----------|-----|-----------|-----|-----------|------|
| | NJ | US | NJ | US | NJ | US | NJ | US |
| All races | 5.4 | 6.4 | 6.5 | 7.2 | 6.9 | 8.0 | 9.1 | 9.7 |
| White | 5.5 | 6.4 | 6.7 | 7.2 | 7.1 | 8.2 | 9.8 | 10.0 |
| Black | 4.1 | 3.8 | 4.1 | 4.0 | 4.8 | 4.8 | 4.6 | 5.6 |

Source SEER Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 10. Comparative Incidence Rates, New Jersey and U.S., 1995-1999 Males

| Cancer Site | New Je | rsey 1995. | 1999 | United | States 199 | 5-1999 |
|-------------|-----------|------------|-------|-----------|------------|--------|
| Population: | All Races | White | Black | All Races | White | Black |
| | Combined | | | Combined | | |
| All Sites | 622.4 | 618.4 | 708.9 | 559.5 | 550.0 | 652.1 |
| Colorectal | 78.6 | 79.6 | 76.0 | 67.5 | 67.3 | 69.1 |
| Lung | 93.1 | 91.8 | 118.5 | 91.5 | 89.9 | 120.8 |
| Prostate | 188.8 | 180.6 | 275.1 | 160.6 | 151.5 | 237.3 |
| Melanoma | 19.1 | 21.8 | 1.0 | 17.9 | 19.4 | 1.2 |
| Non-Hodgkin | 25.8 | 26.2 | 20.7 | 23.0 | 23.3 | 17.9 |
| Lymphoma | | | | | | |

Source-NAACCR Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 11. Comparative Incidence Rates, New Jersey and U.S., 1995-1999 Females

| Cancer Site | New Je | rsey 1995 | -1999 | United | States 199 | 393.4 54.2 51.7 114.2 | |
|-------------------|-----------|-----------|-------|-----------|------------|--------------------------------|--|
| Population: | All Races | White | Black | All Races | White | Black | |
| | Combined | | | Combined | | | |
| All Sites | 455.9 | 466.9 | 418.7 | 420.1 | 424.4 | 393.4 | |
| Colorectal | 55.2 | 55.3 | 57.8 | 49.0 | 48.5 | 54.2 | |
| Lung | 55.4 | 56.9 | 52.7 | 52.0 | 53.0 | 51.7 | |
| Breast (invasive) | 139.4 | 144.5 | 115.6 | 131.9 | 134.3 | 114.2 | |
| Melanoma | 11.4 | 13.2 | 0.9 | 11.5 | 12.7 | 0.9 | |
| Non-Hodgkin | 18.4 | 19.0 | 13.9 | 15.9 | 16.3 | 10.8 | |
| Lymphoma | | | | | | | |

Source-NAACCR Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 12. Age-adjusted Mortality Rates, Males All Races Combined

| | Total | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 36,216 | 274.3 | 261.5 | 258.5 | 256.0 |
| Oral Cavity and Pharynx | 636 | 4.9 | 4.6 | 4.2 | 4.0 |
| Lip | 5 | 0.0 | 0.0 | 0.1 | 0.1 |
| Tongue | 159 | 1.2 | 1.1 | 0.1 | |
| Salivary Gland | 45 | 0.2 | 0.4 | 0.3 | |
| Floor of Mouth | 17 | 0.2 | 0.4 | 0.3 | 0.3 |
| Gum and Other Mouth | 100 | 0.3 | 0.0 | 0.1 | 0.1 |
| | 54 | 0.9 | 0.6 | 0.7 | 0.4 |
| Nasopharynx Tonsil | 54 | 0.5 | 0.8 | 0.4 | 0.2 |
| | 55 | 0.5 | 0.5 | 0.3 | |
| Oropharynx | | | | | 0.4 |
| Hypopharynx | 36 | 0.3 | 0.2 | 0.3 | 0.2 |
| Digestive System | 9,408 | 70.4 | 67.8 | 65.1 | 68.4 |
| Esophagus | 1,111 | 7.3 | 7.6 | 8.0 | 7.9 |
| Stomach | 1,231 | 8.7 | 9.5 | 8.8 | 8.4 |
| Small Intestine | 61 | 0.2 | 0.3 | 0.4 | 0.7 |
| Colon and Rectum | 4,003 | 33.5 | 29.4 | 26.9 | 28.4 |
| Colon excluding Rectum | 3,410 | 28.2 | 25.7 | 22.7 | 24.4 |
| Rectum and Rectosigmoid Junction | 593 | 5.2 | 3.7 | 4.2 | 4.0 |
| Anus | 19 | 0.1 | 0.1 | 0.2 | 0.1 |
| Liver and Intrahepatic Bile Duct | 968 | 7.1 | 6.5 | 6.9 | 6.7 |
| Liver | 807 | 5.9 | 5.6 | 5.6 | 5.4 |
| Intrahepatic Bile Duct | 161 | 1.3 | 1.0 | 1.3 | 1.2 |
| Gallbladder | 92 | 0.7 | 0.7 | 0.6 | 0.7 |
| Pancreas | 1,732 | 11.5 | 12.2 | 12.3 | 13.7 |
| Respiratory System | 11,200 | 82.8 | 78.4 | 80.3 | 75.1 |
| Larynx | 423 | 3.1 | 3.2 | 2.9 | 2.7 |
| Lung and Bronchus | 10,683 | 79.1 | 74.6 | 76.6 | |
| | | | | | |
| Bones and Joints | 81 | 0.5 | 0.6 | 0.5 | 0.5 |
| Soft Tissue (Including Heart) | 270 | 1.9 | 2.0 | 2.0 | 1.7 |
| Skin (Excluding Basal and Squamous) | 792 | 5.8 | 5.7 | 5.9 | 5.2 |
| Melanoma of the Skin | 635 | 4.8 | 4.5 | 4.6 | |

Table 12 (continued). Age-adjusted Mortality Rates, Males All Races Combined

| Cancer Site | Total Cases | 1996 | Rates 1997 | 1998 | 1999 |
|---------------------------------|----------------|------------|---------------|------|------|
| Breast | 54 | 0.3 | 0.4 | 0.3 | 0.4 |
| Bicust | 0-1 | 0.0 | 0.4 | 0.0 | 0.4 |
| Male Genital System | 4,218 | 36.9 | 33.7 | 33.4 | 30.3 |
| Prostate | 4,167 | 36.6 | 33.5 | 33.1 | 29.8 |
| Testis | 30 | 0.2 | 0.1 | 0.2 | 0.3 |
| Penis | 18 | 0.1 | 0.1 | 0.1 | 0.2 |
| Urinary System | 2,058 | 15.7 | 15.4 | 15.0 | 15.5 |
| Urinary Bladder | 1,189 | 9.2 | 9.4 | 8.9 | 9.6 |
| Kidney and Renal Pelvis | 833 | 6.2 | 5.8 | 6.0 | 5.5 |
| Ureter | 21 | 0.2 | 0.1 | 0.1 | 0.2 |
| Eye | 11 | 0.1 | 0.1 | 0.1 | 0.0 |
| Bullion Lod and a control | 740 | 5 0 | 4.0 | 5.0 | 4.4 |
| Brain and Other Nervous System | 716 | 5.0 | 4.8 | 5.2 | 4.4 |
| Brain | 700 | 4.8 | 4.7 | 5.2 | 4.3 |
| Endocrine System | 101 | 0.7 | 0.5 | 0.6 | 0.9 |
| Thyroid | 52 | 0.3 | 0.2 | 0.3 | 0.6 |
| Lymphomas | 1,724 | 12.2 | 12.5 | 12.7 | 11.6 |
| Hodgkin Lymphoma | 90 | 0.6 | 0.5 | 0.6 | 0.7 |
| Non-Hodgkin Lymphoma | 1,634 | 11.5 | 12.0 | 12.1 | 10.9 |
| Multiple Myeloma | 633 | 4.9 | 4.9 | 4.6 | 4.1 |
| Leukemias | 1,513 | 10.7 | 11.1 | 10.6 | 11.2 |
| Lymphocytic Leukemia | 426 | 3.3 | 2.6 | 3.2 | 3.4 |
| Acute Lymphocytic Leukemia | 92 | 0.7 | 0.5 | 0.7 | 0.7 |
| Chronic Lymphocytic Leukemia | 317 | 2.5 | 2.1 | 2.4 | 2.6 |
| Myeloid Leukemia | 607 | 3.8 | 4.6 | 4.2 | 4.3 |
| Acute Myeloid Leukemia | 445 | 2.7 | 3.4 | 3.0 | 3.3 |
| Chronic Myeloid Leukemia | 146 | 1.0 | 1.1 | 1.1 | 0.9 |
| Monocytic Leukemia | 10 | 0.1 | 0.1 | 0.0 | 0.1 |
| Other Leukemia | 470 | 3.5 | 3.8 | 3.2 | 3.4 |
| III-Defined & Unspecified Sites | 2,801 | 21.4 | 18.8 | 18.1 | 22.5 |

Table 13. Age-adjusted Mortality Rates, Females All Races Combined

| | Total | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 36,467 | 188.1 | 189.0 | 181.7 | 181.5 |
| | | | | | |
| Oral Cavity and Pharynx | 334 | 2.0 | 1.7 | 1.6 | 1.5 |
| Lip | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tongue | 96 | 0.6 | 0.5 | 0.5 | 0.3 |
| Salivary Gland | 37 | 0.2 | 0.2 | 0.2 | 0.2 |
| Floor of Mouth | 12 | 0.1 | 0.1 | 0.1 | 0.0 |
| Gum and Other Mouth | 72 | 0.4 | 0.3 | 0.3 | 0.4 |
| Nasopharynx | 24 | 0.2 | 0.1 | 0.1 | 0.2 |
| Tonsil | 19 | 0.0 | 0.1 | 0.1 | 0.1 |
| Oropharynx | 14 | 0.1 | 0.0 | 0.1 | 0.1 |
| Hypopharynx | 8 | 0.0 | 0.1 | 0.0 | 0.0 |
| Digestive System | 8,717 | 44.1 | 42.6 | 42.4 | 42.7 |
| Esophagus | 405 | 2.0 | 2.2 | 2.0 | 2.0 |
| Stomach | 913 | 4.5 | 4.4 | 4.7 | 4.5 |
| Small Intestine | 59 | 0.3 | 0.3 | 0.3 | 0.3 |
| Colon and Rectum | 4,209 | 21.5 | 20.1 | 20.7 | 20.1 |
| Colon excluding Rectum | 3,655 | 18.3 | 17.3 | 18.3 | 17.5 |
| Rectum and Rectosigmoid Junction | 554 | 3.1 | 2.7 | 2.4 | 2.6 |
| Anus | 27 | 0.2 | 0.1 | 0.1 | 0.2 |
| Liver and Intrahepatic Bile Duct | 597 | 3.2 | 2.9 | 3.0 | 2.9 |
| Liver | 415 | 2.4 | 2.0 | 2.0 | 1.9 |
| Intrahepatic Bile Duct | 182 | 0.8 | 0.9 | 0.9 | 1.0 |
| Gallbladder | 237 | 1.2 | 1.2 | 1.1 | 1.2 |
| Pancreas | 2,051 | 10.2 | 10.8 | 9.5 | 10.3 |
| Respiratory System | 8,409 | 43.5 | 44.3 | 43.2 | 41.2 |
| Larynx | 113 | 0.6 | 0.5 | 0.7 | 0.6 |
| Lung and Bronchus | 8,245 | 42.8 | 43.5 | 42.2 | 40.3 |
| <u> </u> | | | | | |
| Bones and Joints | 50 | 0.1 | 0.4 | 0.2 | 0.3 |
| Soft Tissue (Including Heart) | 284 | 1.8 | 1.6 | 1.4 | 1.3 |
| Skin (Excluding Basal and Squamous) | 468 | 2.6 | 2.5 | 2.3 | 2.2 |
| Melanoma of the Skin | 394 | 2.1 | 2.3 | 1.9 | 1.9 |
| Molanoma of the Onli | 334 | ۷.۱ | 2.0 | 1.9 | 1.9 |
| Breast | 6,099 | 33.0 | 33.8 | 31.2 | 29.3 |

Table 13 (continued). Age-adjusted Mortality Rates, Females All Races Combined

| Cancer Site | Total Cases | 1996 | Rates 1997 | 1998 | 1999 |
|---------------------------------|----------------|------|---------------|------|------|
| Cancer Site | Cases | 1990 | 1991 | 1990 | 1999 |
| Female Genital System | 3,632 | 18.6 | 19.2 | 18.8 | 18.5 |
| Cervix Uteri | 583 | 3.2 | 3.5 | 2.9 | 3.2 |
| Corpus and Uterus, NOS | 993 | 4.9 | 5.2 | 5.5 | 4.5 |
| Corpus Uteri | 436 | 2.2 | 2.5 | 2.4 | 1.8 |
| Uterus, NOS | 557 | 2.8 | 2.7 | 3.1 | 2.7 |
| Ovary | 1,866 | 9.7 | 9.7 | 9.4 | 9.7 |
| Vagina | 48 | 0.2 | 0.2 | 0.2 | 0.3 |
| Vulva | 103 | 0.3 | 0.5 | 0.6 | 0.5 |
| Urinary System | 1,176 | 5.7 | 6.5 | 5.6 | 5.3 |
| Urinary Bladder | 590 | 2.9 | 3.2 | 2.6 | 2.6 |
| Kidney and Renal Pelvis | 560 | 2.7 | 3.1 | 2.8 | 2.6 |
| Ureter | 19 | 0.1 | 0.1 | 0.1 | 0.1 |
| _ | 4.0 | 2.4 | 2.1 | 0.0 | 0.4 |
| Eye | 12 | 0.1 | 0.1 | 0.0 | 0.1 |
| Brain and Other Nervous System | 674 | 3.5 | 3.8 | 3.4 | 3.9 |
| Brain | 657 | 3.3 | 3.7 | 3.3 | 3.8 |
| Endocrine System | 158 | 0.8 | 0.9 | 0.9 | 0.7 |
| Thyroid | 106 | 0.4 | 0.7 | 0.4 | 0.6 |
| Lymphomas | 1,616 | 8.2 | 7.9 | 8.4 | 7.9 |
| Hodgkin Lymphoma | 90 | 0.5 | 0.6 | | 0.5 |
| Non-Hodgkin Lymphoma | 1,526 | 7.7 | 7.4 | 7.9 | 7.4 |
| Multiple Myeloma | 684 | 3.3 | 3.4 | 3.6 | 3.3 |
| | | | | | |
| Leukemias | 1,244 | 6.6 | 6.1 | 6.1 | 6.3 |
| Lymphocytic Leukemia | 323 | 1.7 | 1.4 | 1.5 | 1.7 |
| Acute Lymphocytic Leukemia | 70 | 0.5 | 0.3 | 0.4 | 0.3 |
| Chronic Lymphocytic Leukemia | 237 | 1.1 | 1.1 | 0.9 | 1.3 |
| Myeloid Leukemia | 498 | 2.7 | 2.5 | | |
| Acute Myeloid Leukemia | 380 | 2.0 | 1.9 | | |
| Chronic Myeloid Leukemia | 108 | 0.7 | 0.6 | | 0.5 |
| Monocytic Leukemia | 6 | 0.1 | 0.0 | 0.0 | 0.0 |
| Other Leukemia | 417 | 2.2 | 2.2 | 1.9 | 2.0 |
| III-Defined & Unspecified Sites | 2,910 | 14.0 | 14.2 | 12.7 | 17.0 |

Table 14. Age-adjusted Mortality Rates, White Males

| | Total | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 31,322 | 270.0 | 258.4 | 254.9 | 253.5 |
| | | | | | |
| Oral Cavity and Pharynx | 477 | 4.4 | | 3.7 | 3.4 |
| Lip | 5 | 0.0 | | 0.1 | 0.1 |
| Tongue | 127 | 1.2 | | | |
| Salivary Gland | 35 | 0.2 | | 0.3 | |
| Floor of Mouth | 13 | 0.3 | | 0.1 | 0.1 |
| Gum and Other Mouth | 81 | 0.8 | 0.7 | 0.7 | 0.4 |
| Nasopharynx | 35 | 0.2 | 0.5 | 0.2 | 0.2 |
| Tonsil | 40 | 0.4 | 0.2 | 0.3 | 0.3 |
| Oropharynx | 34 | 0.2 | 0.5 | 0.2 | 0.2 |
| Hypopharynx | 25 | 0.3 | 0.2 | 0.2 | 0.1 |
| Digestive System | 8,039 | 68.4 | 66.4 | 64.1 | 66.5 |
| Esophagus | 914 | 6.7 | 7.1 | 7.9 | |
| Stomach | 992 | 7.9 | | 8.2 | |
| Small Intestine | 52 | 0.2 | _ | 0.5 | |
| Colon and Rectum | 3,540 | 33.3 | | | |
| Colon excluding Rectum | 3,023 | 27.9 | | 22.7 | 24.9 |
| Rectum and Rectosigmoid Junction | 517 | 5.3 | | 4.2 | 3.8 |
| Anus | 13 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liver and Intrahepatic Bile Duct | 787 | 6.9 | _ | 6.5 | 6.1 |
| Liver | 647 | 5.6 | | 5.2 | 4.9 |
| Intrahepatic Bile Duct | 140 | 1.3 | | 1.3 | |
| Gallbladder | 83 | 0.8 | | 0.6 | |
| Pancreas | 1,487 | 11.4 | | 12.2 | |
| Respiratory System | 9,696 | 81.5 | 77.3 | 79.1 | 75.1 |
| Larynx | 348 | 2.9 | | 2.7 | 2.6 |
| Lung and Bronchus | 9,262 | 77.9 | | 75.6 | |
| Bones and Joints | 72 | 0.5 | 0.7 | 0.5 | 0.6 |
| | ,,, | 3.0 | | 3.0 | 3.0 |
| Soft Tissue (Including Heart) | 229 | 1.9 | 1.9 | 1.9 | 1.7 |
| Skin (Excluding Basal and Squamous) | 770 | 6.4 | 6.5 | 6.5 | 5.9 |
| Melanoma of the Skin | 629 | 5.4 | 5.1 | 5.3 | 4.5 |

Table 14 (continued). Age-adjusted Mortality Rates, White Males

| Cancer Site | Total Cases | 1996 | Rates 1997 | 1998 | 1999 |
|-----------------------------------|----------------|------|---------------|------|------|
| Breast | 42 | 0.3 | 0.3 | 0.3 | 0.4 |
| Dieast | 42 | 0.5 | 0.5 | 0.3 | 0.4 |
| Male Genital System | 3,511 | 34.5 | 32.1 | 30.7 | 28.6 |
| Prostate | 3,464 | 34.1 | 31.9 | 30.3 | 28.1 |
| Testis | 27 | 0.3 | 0.1 | 0.2 | 0.3 |
| Penis | 17 | 0.1 | 0.1 | 0.1 | 0.2 |
| Urinary System | 1,864 | 16.3 | 15.4 | 15.8 | 15.8 |
| Urinary Bladder | 1,109 | 9.6 | 9.9 | 9.5 | 9.9 |
| Kidney and Renal Pelvis | 721 | 6.4 | 5.3 | 6.2 | 5.5 |
| Ureter | 20 | 0.2 | 0.2 | 0.1 | 0.2 |
| Eye | 11 | 0.1 | 0.1 | 0.1 | 0.0 |
| Brain and Other Nervous System | 659 | 5.5 | 5.0 | 5.6 | 4.7 |
| Brain | 647 | 5.3 | 4.9 | 5.5 | 4.7 |
| Endocrine System | 86 | 0.7 | 0.6 | 0.6 | 0.8 |
| Thyroid | 46 | 0.4 | 0.2 | 0.4 | 0.6 |
| Lymphomas | 1,542 | 12.6 | 12.9 | 13.0 | 11.8 |
| Hodgkin Lymphoma | 74 | 0.7 | 0.6 | 0.5 | 0.7 |
| Non-Hodgkin Lymphoma | 1,468 | 11.9 | 12.3 | 12.6 | 11.2 |
| Multiple Myeloma | 523 | 4.7 | 4.5 | 4.2 | 3.9 |
| Leukemias | 1,358 | 11.0 | 11.6 | 10.8 | 11.6 |
| Lymphocytic Leukemia | 379 | 3.4 | 2.6 | 3.2 | 3.5 |
| Acute Lymphocytic Leukemia | 74 | 0.7 | 0.3 | 0.7 | 0.7 |
| Chronic Lymphocytic Leukemia | 291 | 2.5 | 2.2 | 2.5 | 2.7 |
| Myeloid Leukemia | 532 | 3.7 | 4.7 | 4.3 | 4.3 |
| Acute Myeloid Leukemia | 397 | 2.7 | 3.6 | 3.1 | 3.4 |
| Chronic Myeloid Leukemia | 121 | 0.9 | 1.1 | 1.2 | 0.8 |
| Monocytic Leukemia | 10 | 0.1 | 0.1 | 0.1 | 0.1 |
| Other Leukemia | 437 | 3.8 | 4.2 | 3.2 | 3.7 |
| III-Defined and Unspecified Sites | 2,443 | 21.2 | 19.0 | 17.9 | 22.6 |

Table 15. Age-adjusted Mortality Rates, White Females

| | Total | | Rates | | |
|-------------------------------------|--------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 31,984 | 187.3 | 190.2 | 182.2 | 182.7 |
| Oral Cavity and Pharynx | 268 | 1.8 | 1.5 | 1.6 | 1.3 |
| Lip | 200 | 0.0 | 0.0 | 0.0 | |
| Tongue | 82 | 0.6 | 0.5 | 0.0 | 0.0 |
| Salivary Gland | 35 | 0.0 | 0.3 | 0.3 | |
| Floor of Mouth | 6 | 0.2 | 0.2 | 0.2 | 0.2 |
| Gum and Other Mouth | 61 | 0.0 | 0.1 | 0.0 | 0.0 |
| Nasopharynx | 15 | 0.4 | 0.2 | 0.0 | 0.4 |
| Tonsil | 10 | 0.2 | 0.1 | 0.0 | 0.1 |
| Oropharynx | 11 | 0.0 | 0.0 | 0.1 | 0.0 |
| Hypopharynx | 6 | 0.0 | 0.0 | 0.1 | 0.1 |
| Пурорнатупх | 0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Digestive System | 7,557 | 43.0 | 41.0 | 41.6 | 42.1 |
| Esophagus | 310 | 1.6 | 1.9 | 1.7 | 1.8 |
| Stomach | 758 | 4.3 | 4.1 | 4.4 | 4.0 |
| Small Intestine | 52 | 0.4 | 0.3 | 0.3 | 0.3 |
| Colon and Rectum | 3,688 | 21.2 | 19.3 | 20.5 | 20.2 |
| Colon excluding Rectum | 3,193 | 18.0 | 16.6 | 18.1 | 17.5 |
| Rectum and Rectosigmoid Junction | 495 | 3.2 | 2.7 | 2.4 | 2.6 |
| Anus | 27 | 0.2 | 0.1 | 0.2 | 0.2 |
| Liver and Intrahepatic Bile Duct | 519 | 3.1 | 2.8 | 2.9 | 2.8 |
| Liver | 351 | 2.2 | 1.9 | 2.0 | 1.8 |
| Intrahepatic Bile Duct | 168 | 0.8 | 0.9 | 0.9 | 1.1 |
| Gallbladder | 199 | 1.2 | 1.1 | 1.1 | 1.1 |
| Pancreas | 1,810 | 10.2 | 10.7 | 9.5 | 10.3 |
| Respiratory System | 7,476 | 44.3 | 45.4 | 43.9 | 42.1 |
| Larynx | 97 | 0.6 | 0.5 | 0.7 | 0.6 |
| Lung and Bronchus | 7,333 | 43.7 | 44.5 | 42.9 | 41.2 |
| | 4.5 | 0.4 | 0.4 | 0.0 | 0.0 |
| Bones and Joints | 45 | 0.1 | 0.4 | 0.2 | 0.3 |
| Soft Tissue (Including Heart) | 241 | 1.6 | 1.7 | 1.4 | 1.4 |
| Skin (Excluding Basal and Squamous) | 458 | 3.0 | 2.9 | 2.6 | 2.4 |
| Melanoma of the Skin | 388 | 2.4 | 2.7 | 2.2 | 2.1 |
| Broast | 5 260 | 22.4 | 22.7 | 21 5 | 29.5 |
| Breast | 5,269 | 32.4 | | | |

Table 15 (continued). Age-adjusted Mortality Rates, White Females

| | Total | | Rates | | |
|---------------------------------|-------|------|-------|------|------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| Female Genital System | 3,133 | 18.1 | 19.5 | 18.9 | 18.3 |
| Cervix Uteri | 422 | 2.8 | 3.1 | 2.5 | 2.7 |
| Corpus and Uterus, NOS | 844 | 4.7 | 5.0 | 5.4 | 4.4 |
| Corpus Uteri | 377 | 2.0 | 2.4 | 2.5 | 1.8 |
| Uterus, NOS | 467 | 2.7 | 2.6 | 2.9 | 2.5 |
| Ovary | 1,693 | 9.8 | 10.4 | 10.0 | 10.2 |
| Vagina | 41 | 0.2 | 0.2 | 0.2 | 0.3 |
| Vulva | 98 | 0.4 | 0.6 | 0.6 | 0.5 |
| Urinary System | 1,049 | 5.7 | 6.5 | 5.4 | 5.6 |
| Urinary Bladder | 522 | 2.8 | 3.2 | 2.5 | 2.6 |
| Kidney and Renal Pelvis | 506 | 2.8 | 3.2 | 2.8 | 2.8 |
| Ureter | 16 | 0.1 | 0.1 | 0.1 | 0.1 |
| Eye | 12 | 0.1 | 0.1 | 0.0 | 0.1 |
| Brain and Other Nervous System | 625 | 3.8 | 4.1 | 3.8 | 4.2 |
| Brain | 613 | 3.7 | 4.0 | 3.7 | 4.1 |
| Endocrine System | 138 | 0.8 | 0.9 | 0.9 | 0.7 |
| Thyroid | 94 | 0.4 | 0.7 | 0.4 | 0.6 |
| Lymphomas | 1,468 | 8.4 | 8.3 | 8.6 | 8.3 |
| Hodgkin Lymphoma | 83 | 0.6 | 0.6 | 0.5 | 0.5 |
| Non-Hodgkin Lymphoma | 1,385 | 7.8 | 7.7 | 8.1 | 7.7 |
| Multiple Myeloma | 547 | 2.9 | 3.1 | 3.2 | 3.0 |
| Leukemias | 1,127 | 7.0 | 6.4 | 6.2 | 6.6 |
| Lymphocytic Leukemia | 302 | 1.8 | 1.5 | 1.5 | 1.9 |
| Acute Lymphocytic Leukemia | 64 | 0.5 | 0.3 | 0.5 | 0.4 |
| Chronic Lymphocytic Leukemia | 224 | 1.2 | 1.1 | 0.9 | 1.4 |
| Myeloid Leukemia | 444 | 2.9 | 2.6 | 2.7 | 2.6 |
| Acute Myeloid Leukemia | 344 | 2.1 | 2.1 | 2.1 | 2.1 |
| Chronic Myeloid Leukemia | 91 | 0.8 | 0.5 | 0.5 | 0.5 |
| Monocytic Leukemia | 6 | 0.1 | 0.0 | | 0.0 |
| Other Leukemia | 375 | 2.2 | 2.2 | 2.0 | 2.0 |
| III-Defined & Unspecified Sites | 2,571 | 14.3 | 14.7 | 12.4 | 16.9 |

Table 16. Age-adjusted Mortality Rates, Black Males

| | Total | | Rates | | |
|-------------------------------------|-------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 4,407 | 363.9 | 334.8 | 340.3 | 326.8 |
| | | | | | |
| Oral Cavity and Pharynx | 141 | 8.5 | 9.6 | 9.5 | 10.5 |
| Lip | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tongue | 32 | 1.6 | | | 2.7 |
| Salivary Gland | 7 | 0.6 | 1.0 | 0.2 | 0.5 |
| Floor of Mouth | 3 | 0.2 | 0.0 | 0.2 | 0.2 |
| Gum and Other Mouth | 17 | 1.4 | 1.9 | 0.9 | 0.6 |
| Nasopharynx | 11 | 0.4 | 0.4 | 1.8 | 0.4 |
| Tonsil | 13 | 1.2 | 0.6 | 0.6 | 1.1 |
| Oropharynx | 20 | 0.7 | 1.6 | 0.9 | 2.0 |
| Hypopharynx | 9 | 0.5 | 0.5 | 0.6 | 0.8 |
| | | | | | |
| Digestive System | 1,167 | 97.1 | 89.1 | 78.7 | 89.5 |
| Esophagus | 180 | 13.7 | 13.5 | 10.3 | 13.2 |
| Stomach | 196 | 18.8 | 17.2 | 12.8 | 13.4 |
| Small Intestine | 7 | 0.5 | 0.6 | 0.0 | 0.8 |
| Colon and Rectum | 429 | 42.0 | 34.5 | 31.3 | 30.9 |
| Colon excluding Rectum | 358 | 36.9 | 29.7 | 26.0 | 23.5 |
| Rectum and Rectosigmoid Junction | 71 | 5.1 | 4.8 | 5.3 | 7.4 |
| Anus | 6 | 0.0 | 0.4 | 0.4 | 0.4 |
| Liver and Intrahepatic Bile Duct | 118 | 6.3 | 8.7 | 8.7 | 8.1 |
| Liver | 106 | 5.8 | 6.8 | 7.5 | 7.7 |
| Intrahepatic Bile Duct | 12 | 0.4 | 1.9 | 1.2 | 0.5 |
| Gallbladder | 5 | 0.2 | 0.5 | 1.1 | 0.0 |
| Pancreas | 209 | 14.2 | 12.3 | 13.9 | 19.9 |
| | | | | | |
| Respiratory System | 1,400 | 107.0 | 104.9 | 110.3 | 94.7 |
| Larynx | 68 | 3.7 | 5.4 | 6.2 | 4.2 |
| Lung and Bronchus | 1,325 | 103.1 | 98.7 | 103.7 | 90.0 |
| Bones and Joints | 8 | 0.8 | 0.4 | 0.6 | 0.2 |
| Soft Tissue (Including Heart) | 34 | 2.7 | 2.0 | 2.1 | 1.2 |
| | | | | | |
| Skin (Excluding Basal and Squamous) | 20 | 2.3 | 0.7 | 1.4 | 0.9 |
| Melanoma of the Skin | 5 | 0.6 | 0.2 | 0.2 | 0.4 |

Table 16 (continued). Age-adjusted Mortality Rates, Black Males

| | Total | | Rates | | |
|---------------------------------|-------|------|-------|------|------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| Breast | 12 | 1.0 | 1.6 | 0.5 | 0.7 |
| | | | | | |
| Male Genital System | 679 | 75.4 | 58.5 | 71.1 | 56.6 |
| Prostate | 676 | 75.4 | 58.5 | 71.0 | 56.2 |
| Testis | 3 | 0.0 | 0.0 | 0.2 | 0.4 |
| Penis | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Urinary System | 175 | 11.7 | 16.7 | 10.0 | 17.3 |
| Urinary Bladder | 75 | 6.6 | | 4.5 | 8.9 |
| Kidney and Renal Pelvis | 99 | 5.1 | 10.4 | | 8.2 |
| Ureter | 0 | 0.0 | | 0.0 | 0.0 |
| E | | 0.0 | 0.0 | 0.0 | 0.0 |
| Eye | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Brain and Other Nervous System | 48 | 2.0 | 3.6 | 3.9 | 2.7 |
| Brain | 46 | 1.8 | 3.6 | 3.9 | 2.4 |
| Endocrine System | 11 | 1.0 | 0.3 | 0.5 | 1.2 |
| Thyroid | 4 | 0.0 | 0.3 | 0.4 | 0.5 |
| Lymphomas | 155 | 9.6 | 11.0 | 9.8 | 10.2 |
| Hodgkin Lymphoma | 16 | 0.5 | | 1.0 | 1.3 |
| Non-Hodgkin Lymphoma | 139 | 9.1 | 10.5 | 8.9 | 8.8 |
| Multiple Myeloma | 102 | 7.1 | 9.3 | 9.2 | 6.1 |
| multiple myelonia | 102 | 7.1 | 3.5 | J.Z | 0.1 |
| Leukemias | 129 | 9.5 | 7.9 | 9.6 | 8.5 |
| Lymphocytic Leukemia | 42 | 3.2 | 3.0 | 3.1 | 2.7 |
| Acute Lymphocytic Leukemia | 14 | 0.5 | 1.4 | 0.9 | 0.4 |
| Chronic Lymphocytic Leukemia | 25 | 2.8 | 1.5 | 1.6 | 2.2 |
| Myeloid Leukemia | 59 | 4.1 | 3.8 | 2.4 | 4.7 |
| Acute Myeloid Leukemia | 39 | 3.1 | 2.6 | | 2.8 |
| Chronic Myeloid Leukemia | 18 | 1.0 | | 0.6 | 1.5 |
| Monocytic Leukemia | 0 | 0.0 | 0.0 | 0.0 | |
| Other Leukemia | 28 | 2.2 | 1.1 | 4.0 | 1.1 |
| III-Defined & Unspecified Sites | 326 | 28.3 | 19.2 | 23.0 | 26.6 |

Table 17. Age-adjusted Mortality Rates, Black Females

| | Total | | Rates | | |
|-------------------------------------|-------|-------|-------|-------|-------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| All Sites | 4,050 | 216.8 | 212.5 | 202.0 | 203.4 |
| Oral Cavity and Pharynx | 61 | 2.8 | 3.3 | 2.7 | 3.4 |
| Lip | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tongue | 14 | 1.1 | 0.5 | 0.2 | 0.8 |
| Salivary Gland | 1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Floor of Mouth | 6 | 0.2 | 0.4 | 0.6 | 0.0 |
| Gum and Other Mouth | 11 | 0.4 | 1.0 | 0.7 | 0.4 |
| Nasopharynx | 6 | 0.0 | 0.0 | 0.7 | 0.6 |
| Tonsil | 9 | 0.4 | 0.4 | 0.2 | 0.8 |
| Oropharynx | 3 | 0.4 | 0.0 | 0.2 | 0.0 |
| Hypopharynx | 2 | 0.0 | 0.2 | 0.0 | 0.2 |
| | | | | | |
| Digestive System | 1,027 | 53.6 | 60.3 | 52.0 | 53.6 |
| Esophagus | 89 | 5.3 | 5.4 | 4.4 | 3.4 |
| Stomach | 121 | 5.3 | 6.4 | 5.8 | 8.1 |
| Small Intestine | 5 | 0.3 | 0.0 | 0.5 | 0.2 |
| Colon and Rectum | 480 | 26.0 | 30.0 | 24.8 | 22.8 |
| Colon excluding Rectum | 427 | 23.1 | 26.7 | 22.7 | 19.7 |
| Rectum and Rectosigmoid Junction | 53 | 2.9 | 3.2 | 2.2 | 3.0 |
| Anus | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liver and Intrahepatic Bile Duct | 59 | 3.1 | 3.1 | 2.5 | 3.6 |
| Liver | 49 | 2.8 | 2.7 | 1.4 | 3.4 |
| Intrahepatic Bile Duct | 10 | 0.4 | 0.4 | 1.1 | 0.2 |
| Gallbladder | 30 | 1.4 | 2.2 | 1.2 | 1.7 |
| Pancreas | 221 | 10.9 | 12.5 | 11.1 | 12.9 |
| Respiratory System | 863 | 45.4 | 42.4 | 46.0 | 43.3 |
| Larynx | 16 | 0.6 | 0.6 | 1.3 | 0.6 |
| Lung and Bronchus | 842 | 44.3 | 41.7 | 44.6 | 42.2 |
| Bones and Joints | 4 | 0.2 | 0.2 | 0.1 | 0.2 |
| Bolics and Johns | | 0.2 | 0.2 | 0.1 | 0.2 |
| Soft Tissue (Including Heart) | 36 | 3.2 | 1.3 | 1.1 | 0.9 |
| Skin (Excluding Basal and Squamous) | 9 | 0.5 | 0.3 | 0.3 | 0.8 |
| Melanoma of the Skin | 6 | 0.5 | 0.3 | 0.2 | 0.4 |
| Breast | 759 | 43.6 | 40.0 | 34.4 | 32.8 |

Table 17 (continued). Age-adjusted Mortality Rates, Black Females

| | Total | | Rates | | |
|---------------------------------|-------|------------|-------|------|------|
| Cancer Site | Cases | 1996 | 1997 | 1998 | 1999 |
| Female Genital System | 445 | 24.9 | 22.5 | 19.2 | 22.6 |
| Cervix Uteri | 145 | 6.8 | 7.2 | 5.8 | 7.9 |
| Corpus and Uterus, NOS | 135 | 7.3 | 7.9 | 6.9 | 6.4 |
| Corpus Uteri | 55 | 3.9 | 3.5 | 2.5 | 1.4 |
| Uterus, NOS | 80 | 3.4 | 4.4 | 4.4 | 5.0 |
| Ovary | 150 | 10.1 | 7.0 | 5.7 | 7.2 |
| Vagina | 6 | 0.4 | 0.3 | 0.5 | 0.0 |
| Vulva | 5 | 0.0 | 0.0 | 0.2 | 0.8 |
| Urinary System | 118 | 6.4 | 7.5 | 7.8 | 4.2 |
| Urinary Bladder | 62 | 3.7 | 4.2 | 4.2 | 1.9 |
| Kidney and Renal Pelvis | 52 | 2.4 | 3.0 | 3.3 | 2.1 |
| Ureter | 3 | 0.3 | 0.0 | 0.3 | 0.2 |
| Eye | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Brain and Other Nervous System | 41 | 2.2 | 1.9 | 1.5 | 2.2 |
| • | 37 | 2.2 1.8 | 1.9 | 1.3 | 2.2 |
| Brain | 37 | 1.8 | 1.9 | 1.3 | 2.1 |
| Endocrine System | 19 | 0.9 | 1.0 | 0.7 | 1.0 |
| Thyroid | 11 | 0.4 | 0.8 | 0.2 | 0.7 |
| Lymphomas | 131 | 7.4 | 6.5 | 6.3 | 5.7 |
| Hodgkin Lymphoma | 7 | 0.3 | 0.6 | 0.2 | 0.0 |
| Non-Hodgkin Lymphoma | 124 | 7.1 | 5.9 | 6.1 | 5.7 |
| Multiple Myeloma | 129 | 7.5 | 6.6 | 7.0 | 6.3 |
| Leukemias | 103 | 4.5 | 5.3 | 6.4 | 5.2 |
| Lymphocytic Leukemia | 103 | 0.6 | 0.9 | 1.4 | 0.9 |
| Acute Lymphocytic Leukemia | 4 | 0.3 | 0.9 | 0.0 | 0.9 |
| Chronic Lymphocytic Leukemia | 13 | 0.3 | 0.2 | 1.0 | 0.8 |
| Myeloid Leukemia | 47 | 1.8 | 2.3 | 3.2 | 2.2 |
| Acute Myeloid Leukemia | 30 | 1.8 | 0.8 | | 1.2 |
| Chronic Myeloid Leukemia | 16 | 0.0 | 1.5 | 1.1 | 0.7 |
| Monocytic Leukemia | 0 | 0.0 | 0.0 | 0.0 | |
| Other Leukemia | 37 | 2.1 | 2.1 | 1.7 | 2.1 |
| III-Defined & Unspecified Sites | 305 | 13.7 | 13.3 | 16.7 | 21.3 |

Table 18. Age-adjusted Mortality Rates, Hispanic Males and Females 1996-1999 Combined

| | 1996-1999 Combined | | | | | |
|-------------------------------------|--------------------|---------|------------|--------|--|--|
| Company Site | Male | Male | Female | Female | | |
| Cancer Site | Rate | Cases | Rate | Cases | | |
| All Sites | 119.1 | 1,161 | 78.0 | 1,054 | | |
| | | | | | | |
| Oral Cavity and Pharynx | 1.9 | 22 | 1.0 | 13 | | |
| Lip | 0.0 | 0 | 0.0 | 0 | | |
| Tongue | 0.5 | 6 | 0.4 | 5 | | |
| Salivary Gland | 0.0 | 0 | ^ | ٨ | | |
| Floor of Mouth | ^ | ^ | 0.0 | 0 | | |
| Gum and Other Mouth | 0.5 | 5 | ^ | ^ | | |
| Nasopharynx | 0.0 | 0 | 0.0 | 0 | | |
| Tonsil | ^ | ^ | 0.0 | 0 | | |
| Oropharynx | ^ | ^ | ^ | ^ | | |
| Hypopharynx | 0.0 | 0 | ^ | ^ | | |
| Digestive System | 35.0 | 343 | 21.3 | 271 | | |
| Esophagus | 3.8 | 38 | 0.5 | 5 | | |
| Stomach | 6.2 | 64 | 3.3 | 45 | | |
| Small Intestine | 0.2 | ^ | 5.5 | | | |
| Colon and Rectum | 12.0 | 117 | 8.8 | 115 | | |
| Colon excluding Rectum | 9.3 | 91 | 7.9 | 103 | | |
| Rectum and Rectosigmoid Junction | 2.7 | 26 | 0.9 | | | |
| Anus | 2.7 | 20 | 0.9 | 0 | | |
| Liver and Intrahepatic Bile Duct | 5.7 | 55 | 2.9 | | | |
| Liver Liver | 5.1 | 51 | 2.9 | 29 | | |
| Intrahepatic Bile Duct | J. 1 | ۸ | 0.5 | 6 | | |
| Gallbladder | 0.6 | 5 | 0.5 | 10 | | |
| | 5.7 | 5 54 | 0.9 4.1 | 50 | | |
| Pancreas | 5.7 | 54 | 4.1 | 50 | | |
| Respiratory System | 30.8 | 305 | 9.1 | 122 | | |
| Larynx | 1.9 | 21 | ^ | ^ | | |
| Lung and Bronchus | 28.4 | 279 | 8.8 | 116 | | |
| Danas and Isinta | | ٨ | Δ. | • | | |
| Bones and Joints | ^ | ^ | , | ^ | | |
| Soft Tissue (Including Heart) | 0.6 | 8 | 0.8 | 13 | | |
| Skin (Excluding Basal and Squamous) | 1.3 | 14 | 0.5 | 6 | | |
| Melanoma of the Skin | 1.1 | 12 | 0.4 | 5 | | |
| | | | | | | |
| Breast | ^ | ^ | 13.8 | 195 | | |

^{*} Non-applicable gender

[^] Rates not calculated for fewer than five cases

Table 18 (continued). Age-adjusted Mortality Rates, Hispanic Males and Females 1996-1999 Combined

| | - | 1996-1999 | Combine | | | |
|---------------------------------|---------|-----------|---------|--------|--|--|
| | Male | Male | Female | Female | | |
| Cancer Site | Rate | Cases | Rate | Cases | | |
| Famala Canital System | * | * | 0.4 | 100 | | |
| Female Genital System | * | * | 9.4 | 133 | | |
| Cervix Uteri | | | 2.6 | | | |
| Corpus and Uterus, NOS | * | | 2.4 | 31 | | |
| Corpus Uteri | | ^ | 1.3 | | | |
| Uterus, NOS | * | ^ | 1.2 | 16 | | |
| Ovary | <u></u> | î | 3.8 | | | |
| Vagina | * | ^ | 0.0 | 0 | | |
| Vulva | * | * | ^ | ^ | | |
| Male Genital System | 16.3 | 116 | * | * | | |
| Prostate | 15.8 | 111 | * | * | | |
| Testis | ^ | ^ | * | * | | |
| Penis | ^ | ^ | * | * | | |
| | | | | | | |
| Urinary System | 6.0 | 55 | 2.5 | 31 | | |
| Urinary Bladder | 3.5 | 27 | 1.4 | 16 | | |
| Kidney and Renal Pelvis | 2.3 | 26 | 1.1 | 15 | | |
| Ureter | ^ | ^ | 0.0 | 0 | | |
| | | | | | | |
| Eye | ^ | ^ | 0.0 | 0 | | |
| Brain and Other Nervous System | 1.8 | 24 | 1.3 | 22 | | |
| Brain | 1.8 | 23 | 1.3 | 22 | | |
| | | | | | | |
| Endocrine System | 0.5 | 5 | ^ | ٨ | | |
| Thyroid | ^ | ^ | ^ | ٨ | | |
| Luminhamaa | 7.4 | 70 | 4.0 | 00 | | |
| Lymphomas | 7.1 | 78 | 4.6 | 63 | | |
| Hodgkin Lymphoma | 0.6 | 6 | 4.5 | 00 | | |
| Non-Hodgkin Lymphoma | 6.6 | 72 | 4.5 | 62 | | |
| Multiple Myeloma | 1.8 | 16 | 2.3 | 27 | | |
| | | | | | | |
| Leukemias | 6.5 | 74 | 3.8 | 58 | | |
| Lymphocytic Leukemia | 1.5 | 21 | 1.1 | 17 | | |
| Acute Lymphocytic Leukemia | 0.7 | 15 | 0.4 | 9 | | |
| Chronic Lymphocytic Leukemia | 0.8 | 6 | 0.6 | 7 | | |
| Myeloid Leukemia | 2.9 | 32 | 1.5 | 24 | | |
| Acute Myeloid Leukemia | 2.0 | 22 | 1.1 | 18 | | |
| Chronic Myeloid Leukemia | 0.9 | 9 | 0.4 | 6 | | |
| Monocytic Leukemia | ^ | ^ | 0.0 | | | |
| Other Leukemia | 2.0 | 20 | 1.3 | | | |
| | | | | | | |
| III-Defined & Unspecified Sites | 8.9 | 93 | 7.3 | 95 | | |

Cancer Incidence and Mortality in New Jersey, 1996-2000

Rates are per 100,000 and age-adjusted to the 2000 U.S. population standard * Non-applicable gender ^ Rates not calculated for fewer than five cases

Table 19. Comparative Mortality Rates, New Jersey and U.S., 1995-1999 Males

| Cancer Site | New Je | rsey 1995- | 1999 | United States 1995-1999 | | | | |
|-------------|-----------|------------|-------|-------------------------|-------|-------|--|--|
| Population: | All Races | White | Black | All Races | White | Black | | |
| | Combined | | | Combined | | | | |
| All Sites | 265.7 | 261.6 | 349.6 | 259.1 | 253.0 | 359.2 | | |
| Lung | 76.1 | 75.1 | 100.6 | 81.2 | 79.1 | 109.1 | | |
| Prostate | 34.2 | 31.8 | 68.9 | 33.9 | 31.2 | 72.8 | | |
| Colorectal | 30.2 | 30.3 | 34.9 | 26.3 | 25.8 | 34.4 | | |

Source-NAACCR Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 20. Comparative Mortality Rates, New Jersey and U.S., 1995-1999 Females

| Cancer Site | New Jer | sey 1995-1 | 1999 | United States 1995-1999 | | | | |
|-------------|-----------|------------|-------|-------------------------|-------|-------|--|--|
| Population: | All Races | White | Black | All Races | White | Black | | |
| | Combined | | | Combined | | | | |
| All Sites | 186.2 | 186.4 | 212.6 | 171.4 | 169.8 | 203.5 | | |
| Lung | 42.1 | 42.8 | 44.1 | 41.0 | 41.7 | 40.2 | | |
| Breast | 32.2 | 32.2 | 37.6 | 28.8 | 28.2 | 37.1 | | |
| Colorectal | 20.9 | 20.6 | 26.4 | 18.5 | 18.0 | 25.4 | | |

Source-NAACCR Age-adjusted rates per 100,000 (U.S. 2000 Standard population)

Table 21. Population Denominators

| | • | | | | | | | | | | | |
|----------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|
| | 1996 | | | | | | 1997 | | | | | |
| | All races | All races | White | White | Black | Black | All races | All races | White | White | Black | Black |
| _ | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | | Females |
| 00-04 | 291,594 | 278,712 | 222,054 | 211,751 | 52,126 | 50,137 | 285,850 | 273,245 | 215,969 | 205,754 | 51,006 | 49,152 |
| 05-09 | 294,322 | 281,031 | 226,234 | 215,937 | 52,097 | 50,403 | 298,555 | 285,196 | 228,627 | 218,173 | 53,076 | 51,454 |
| 10-14 | 270,381 | 256,744 | 205,883 | 194,930 | 47,582 | 45,639 | 273,504 | 259,752 | 207,739 | 197,006 | 48,136 | 46,076 |
| 15-19 | 260,395 | 245,929 | 196,898 | 184,440 | 48,193 | 46,374 | 262,948 | 248,362 | 198,476 | 185,779 | 48,391 | 46,711 |
| 20-24 | 238,735 | 233,087 | 181,947 | 175,348 | 42,959 | 42,673 | 237,454 | 231,381 | 180,674 | 173,468 | 42,350 | 42,686 |
| 25-29 | 262,425 | 264,772 | 203,537 | 200,281 | 44,089 | 46,300 | 255,310 | 257,965 | 195,990 | 193,358 | 43,782 | 45,744 |
| 30-34 | 332,644 | 341,103 | 263,646 | 263,225 | 49,016 | 54,235 | 324,013 | 333,029 | 254,906 | 254,295 | 48,390 | 53,698 |
| 35-39 | 355,385 | 364,037 | 286,323 | 287,832 | 47,722 | 53,336 | 358,804 | 367,477 | 287,774 | 289,447 | 49,002 | 54,343 |
| 40-44 45-49 | 312,532 279,235 | 330,032 295,870 | 255,538 231,266 | 263,720 238,921 | 38,623 32,333 | 46,062 40,183 | 323,048 276,011 | 340,440 292,803 | 262,831 226,757 | 271,366 234,140 | 40,599 32,902 | 47,404 41,142 |
| 50-54 | 218,968 | 233,079 | 182,657 | 190,539 | 24,394 | 31,009 | 236,737 | 251,484 | 198,492 | 206,438 | 25,348 | 32,119 |
| 55-59 | 171,633 | 187,090 | 142,378 | 152,457 | 20,811 | 26,465 | 177,978 | 193,949 | 147,488 | 157,257 | 21,262 | 27,653 |
| 60-64 | 147,855 | 165,052 | 125,585 | 137,644 | 16,602 | 21,502 | 147,288 | 163,937 | 124,187 | 135,615 | 16,708 | 21,760 |
| 65-69 | 143,898 | 175,342 | 125,819 | 151,456 | 14,469 | 19,107 | 140,920 | 171,257 | 122,345 | 146,750 | 14,623 | 19,403 |
| 70-74 | 121,551 | 163,437 | 109,250 | 145,788 | 9,529 | 13,801 | 120,934 | 161,801 | 108,154 | 143,531 | 9,775 | 14,100 |
| 75-79 | 91,372 | 136,487 | 83,246 | 123,559 | 6,347 | 10,416 | 93,835 | 138,539 | 85,313 | 125,123 | 6,592 | 10,649 |
| 80-84 | 53,038 | 94,757 | 48,779 | 86,886 | 3,165 | 6,469 | 54,783 | 96,809 | 50,264 | 88,543 | 3,311 | 6,708 |
| 85+ | 33,590 | 86,381 | 30,662 | 79,598 | 2,262 | 5,787 | 35,122 | 88,594 | 31,945 | 81,580 | 2,371 | 5,839 |
| Total | 3,879,553 | 4,132,942 | 3,121,702 | 3,304,312 | 552,319 | 609,898 | 3,903,094 | 4,156,020 | 3,127,931 | 3,307,623 | 557,624 | 616,641 |
| L | | | | | | I | | | | | | |
| | 1998 | | | | | | 1999 | | | | | |
| | All races | All races | White | White | Black | Black | All races | All races | White | White | Black | Black |
| | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females |
| 00-04 | 282,152 | 269,914 | 211,372 | 201,383 | 50,525 | 48,687 | 281,073 | 269,105 | 209,464 | 199,119 | 50,083 | 48,710 |
| 05-09 | 300,272 | 286,679 | 229,164 | 218,615 | 53,535 | 51,838 | 300,539 | 286,963 | 228,835 | 218,389 | 53,477 | 51,674 |
| 10-14 | 279,044 | 265,089 | 211,229 | 200,699 | 49,368 | 47,270 | 288,121 | 273,737 | 217,585 | 206,874 | 51,111 | 49,091 |
| 15-19 | 265,807 | 251,122 | 200,264 | 187,438 | 48,647 | 46,861 | 267,291 | 252,664 | 201,434 | 188,808 | 48,366 | 46,506 |
| 20-24 | 236,658 | 230,146 | 179,753 | 172,114 | 42,373 | 42,470 | 237,523 | 230,502 | 179,730 | 171,731 | 42,907 | 42,790 |
| 25-29 | 250,248 | 253,220 | 191,087 | 188,569 | 43,065 | 45,206 | 245,324 | 248,009 | 186,165 | 183,698 | 42,354 | 44,415 |
| 30-34 | 313,297 | 322,496 | 245,039 | 243,931 | 47,177 | 52,980 | 302,136 | 310,826 | 231,048 | 233,829 | 45,476 | 51,429 |
| 35-39 | 359,546 | 368,247 | 286,760 | 288,029 | 50,030 | 55,230 | 358,562 | 367,108 | 284,499 | 285,406 | 50,504 | 55,553 |
| 40-44 | 333,041 | 350,217 | 269,721 | 278,144 | 42,504 | 48,972 | 341,270 | 358,173 | 274,840 | 283,640 | 44,224 | 50,319 |
| 45-49 50-54 | 278,938 241,871 | 295,867 257,097 | 228,481 201,816 | 235,598 209,837 | 33,432 26,248 | 41,806 33,294 | 284,369 249,398 | 301,345 265,221 | 232,659 207,179 | 239,768 215,352 | 34,068 27,542 | 42,286 |
| 55-59 | 188,715 | 205,359 | 157,072 | 167,067 | 21,730 | 28,442 | 195,314 | 212,529 | 162,761 | 172,869 | 21,991 | 34,635 29,056 |
| 60-64 | 148,785 | 165,150 | 124,549 | 135,624 | 17,139 | 22,464 | 150,946 | 167,435 | 125,494 | 136,599 | 17,687 | 23,239 |
| 65-69 | 137,176 | 166,746 | 118,135 | 141,451 | 14,659 | 19,774 | 134,430 | 162,552 | 114,944 | 136,854 | 14,667 | 19,816 |
| 70-74 | 121,888 | 161,082 | 108,485 | 142,110 | 10,175 | 14,506 | 121,296 | 158,957 | 107,253 | 139,462 | 10,601 | 14,797 |
| 75-79 | 95,784 | 140,048 | 86,722 | 125,995 | 6,874 | 10,955 | 97,835 | 142,098 | 88,367 | 127,597 | 7,047 | 11,141 |
| 80-84 | 56,495 | 98,269 | 51,670 | 89,926 | 3,507 | 6,615 | 57,869 | 99,659 | 52,834 | 91,099 | 3,637 | 6,705 |
| 85+ | 37,028 | 91,486 | 33,585 | 83,953 | 2,490 | 6,154 | 39,024 | 94,262 | 35,216 | 86,223 | 2,723 | 6,445 |
| Total | | 4,178,234 | | | | 623,524 | | 4,201,145 | | 3,317,317 | | |
| L | | | | | | · | | | | | | , |
| | 2000 | | | | | | | | | | | |
| | All races | All races | White* | White* | Black* | Black* | | | | | | |
| | Males | Females | Males | Females | Males | Females | | | | | | |
| 00-04 | 288,085 | 275,700 | 189,620 | 180,670 | 45,204 | 43,781 | | | | | | |
| 05-09 | 309,563 | 294,966 | 206,641 | 196,671 | 51,894 | 49,772 | | | | | | |
| 10-14 | 302,708 | 287,869 | 205,869 | 194,927 | 49,799 | 48,255 | | | | | | |
| 15-19 | 271,020 | 254,196 | 179,476 | 167,335 | 44,665 | 43,268 | | | | | | |
| 20-24 | 244,628 | 235,451 | 155,301 | 147,934 | 39,242 | 40,918 | | | | | | |
| 25-29 | 272,873 | 272,044 | 175,410 | 173,413 | 39,699 | 44,025 | | | | | | |
| 30-34 | 319,031 | 325,092 | 217,771 | 219,687 | 43,922 | 49,713 | | | | | | |
| 35-39 | 360,230 | 367,694 | 259,036 | 261,812 | 46,777 | 52,466 | | | | | | |
| 40-44 | 348,061 | 359,121 | 260,026 | 264,000 | 41,100 | 47,394 | | | | | | |
| 45-49 | 297,845 | 313,512 | 229,258 | 235,963 | 32,484 | 39,701 | | | | | | |
| 50-54 | 263,357 | 284,184 | 207,146 | 218,535 | 27,404 | 35,053 | | | | | | |
| 55-59 60-64 | 202,559 | 220,779 | 161,012 | 172,383 | 21,646 | 27,706 | | | | | | |
| 60-64 65-69 | 156,073 132,558 | 174,573 160,638 | 123,644 109,864 | 136,261 130,802 | 17,834 13,636 | 23,072 18,497 | | | | | | |
| 70-74 | 132,558 | 159,834 | 109,864 | 130,802 | 10,315 | 14,775 | | | | | | |
| 75-74 75-79 | 95,560 | 144,571 | 85,103 | 127,606 | 6,743 | 11,213 | | | | | | |
| 80-84 | 58,291 | 104,046 | 52,899 | 93,562 | 3,465 | 7,134 | | | | | | |
| 85+ | 38,732 | 97,267 | 35,016 | 87,949 | 2,380 | 6,869 | | | | | | |
| Total | | 4,331,537 | | | | 603,612 | | | | | | |
| | | | | | | - | (voor 2000) | * Done for l | Dagge M/bita | Plack - Ala | | |

Source: The National Cancer Institute's SEER Program and U S Census Bureau (year 2000). * Pops for Races White, Black = Alone

Table 21. Population Denominators

Hispanic Populations, 1996-2000

| | All races | | | | | | All races | | | | | |
|-------|-----------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|
| | Total | 1996 | 1997 | 1998 | 1999 | 2000 | Total | 1996 | 1997 | 1998 | 1999 | 2000 |
| | Males | Males | Males | Males | Males | Males | Females | Females | Females | Females | Females | Females |
| 00-04 | 241,876 | 46,893 | 47,229 | 47,878 | 49,118 | 50,758 | 230,262 | 44,393 | 44,886 | 45,573 | 46,797 | 48,613 |
| 05-09 | 229,054 | 41,519 | 44,162 | 45,961 | 47,701 | 49,711 | 219,063 | 39,873 | 42,247 | 44,076 | 45,520 | 47,347 |
| 10-14 | 204,324 | 37,382 | 38,660 | 40,305 | 42,207 | 45,770 | 193,922 | 35,200 | 36,462 | 38,107 | 39,979 | 44,174 |
| 15-19 | 210,320 | 39,436 | 40,473 | 41,070 | 41,201 | 48,140 | 195,580 | 37,187 | 38,009 | 38,544 | 38,974 | 42,866 |
| 20-24 | 210,011 | 37,226 | 38,023 | 39,103 | 39,547 | 56,112 | 200,301 | 36,551 | 38,030 | 38,961 | 39,417 | 47,342 |
| 25-29 | 214,376 | 39,311 | 39,303 | 39,368 | 39,738 | 56,656 | 210,105 | 39,260 | 39,616 | 40,407 | 41,042 | 49,780 |
| 30-34 | 241,614 | 46,562 | 47,110 | 46,808 | 45,758 | 55,376 | 237,820 | 45,535 | 46,725 | 47,056 | 47,175 | 51,329 |
| 35-39 | 235,801 | 43,089 | 45,029 | 47,063 | 48,611 | 52,009 | 231,358 | 42,409 | 44,409 | 46,505 | 48,085 | 49,950 |
| 40-44 | 186,436 | 33,220 | 35,391 | 37,201 | 39,348 | 41,276 | 192,721 | 34,835 | 36,815 | 38,824 | 40,511 | 41,736 |
| 45-49 | 142,303 | 26,247 | 27,306 | 28,404 | 29,476 | 30,870 | 151,846 | 28,080 | 29,251 | 30,399 | 31,488 | 32,628 |
| 50-54 | 110,936 | 19,817 | 21,082 | 22,247 | 23,358 | 24,432 | 122,296 | 22,026 | 23,392 | 24,550 | 25,520 | 26,808 |
| 55-59 | 86,204 | 16,164 | 16,740 | 17,576 | 18,120 | 17,604 | 97,297 | 17,892 | 18,915 | 19,896 | 20,769 | 19,825 |
| 60-64 | 65,709 | 12,156 | 12,708 | 13,256 | 13,878 | 13,711 | 75,154 | 13,897 | 14,568 | 15,179 | 15,855 | 15,655 |
| 65-69 | 48,966 | 9,356 | 9,697 | 10,031 | 10,361 | 9,521 | 61,419 | 11,379 | 12,030 | 12,633 | 13,346 | 12,031 |
| 70-74 | 34,738 | 6,281 | 6,769 | 7,272 | 7,866 | 6,550 | 45,844 | 8,457 | 8,946 | 9,538 | 10,046 | 8,857 |
| 75-79 | 21,406 | 3,884 | 4,210 | 4,546 | 5,003 | 3,763 | 32,625 | 6,054 | 6,370 | 6,872 | 7,359 | 5,970 |
| 80-84 | 11,971 | 2,223 | 2,387 | 2,613 | 2,821 | 1,927 | 21,892 | 4,183 | 4,484 | 4,709 | 4,906 | 3,610 |
| 85+ | 8,827 | 1,644 | 1,741 | 1,940 | 2,143 | 1,359 | 19,548 | 3,511 | 3,860 | 4,313 | 4,739 | 3,125 |
| Total | 2,504,872 | 462,410 | 478,020 | 492,642 | 506,255 | 565,545 | 2,539,053 | 470,722 | 489,015 | 506,142 | 521,528 | 551,646 |

Source: The National Cancer Institute's SEER Program and U S Census Bureau (year 2000).